CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement



FINAL

Merced to Fresno Section Project EIR/EIS

Volume III:

Section E1 – Alignment Plans

Hybrid Alternative with Ave 24 Wye

April 2012

CALIFORNIA High-Speed Rail Authority

U.S. Department of Transportation
Federal Railroad Administration

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	T1109-A	HYBRID		PLAN AND PROFILE	STA 1755+00 TO STA 1810+00
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	T1117-A	HYBRID		PLAN AND PROFILE	STA 2195+00 TO STA 2250+00
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	T1119-A	HYBRID		PLAN AND PROFILE	STA 2305+00 TO STA 2360+00
	T1120-A	HYBRID		PLAN AND PROFILE	STA 2360+00 TO STA 2415+00
	T1121-A	HYBRID		PLAN AND PROFILE	STA 2415+00 TO STA 2470+00
	T1122-A	HYBRID		PLAN AND PROFILE	STA 2470+00 TO STA 2525+00
	T1123-A	HYBRID		PLAN AND PROFILE	STA 2525+00 TO STA 2580+00
	T1124-A	HYBRID		PLAN AND PROFILE	STA 2580+00 TO STA 2635+00
	T1125-A	HYBRID		PLAN AND PROFILE	STA 2635+00 TO STA 2690+00
	T1126-A	HYBRID		PLAN AND PROFILE	STA 2690+00 TO STA 2740+55.75
	T1127-A	HYBRID		PLAN AND PROFILE	STA 1713+98 TO 1748+00
	T1128-A	HYBRID		PLAN AND PROFILE	STA 1748+00 TO STA 1801+61.52
	T2360-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5061+66.32 TO STA 5080+00
	T2361-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5080+00 TO STA 5135+00
	T2362-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5135+00 TO STA 5190+00
	T2363-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5190+00 TO STA 5245+00
	T2364-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5245+00 TO STA 5300+00
	T2365-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5300+00 TO STA 5355+00
	T2366-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5355+00 TO STA 5410+00
	T2367-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5410+00 TO STA 5465+00
	T2368-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5465+00 TO STA 5520+00
	T2369-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5520+00 TO STA 5556+91.21
	T2380-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5058+80.31 TO STA 5080+00
	T2381-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5080+00 TO STA 5135+00
	T2382-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5135+00 TO STA 5190+00
	T2383-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5190+00 TO STA 5245+00
	T2384-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5245+00 TO STA 5300+00
	T2385-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5300+00 TO STA 5355+00
	T2386-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5355+00 TO STA 5410+00
	T2387-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5410+00 TO STA 5465+00
	T2388-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5465+00 TO STA 5520+00
	T2389-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5520+00 TO STA 5556+97.18
	T2217-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5556+98.34 TO STA 5575+00
	T2218-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5575+00 TO STA 5630+00
	T2219-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5630+00 TO STA 5685+00
	T2220-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5685+00 TO STA 5740+00
	T2221-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5740+00 TO STA 5795+00
	T2222-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5795+00 TO STA 5850+00
	T2223-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5850+00 TO STA 5905+00
	T2224-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5905+00 TO STA 5960+00
	T2225-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5960+00 TO STA 6015+00
	T2226-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 6015+00 TO STA 6066+14.09
	T2410-A	UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 148+82.51 TO STA 155+00
	T2411-A	UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 155+00 TO STA 210+00
	T2412-A	UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 210+00 TO STA 265+00
	T2413-A	UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 265+00 TO STA 320+00
	T2414-A	UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 320+00 TO STA 375+00
	T2415-A	UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 375+00 TO STA 382+24.68
	T2421-A	UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 524+67 TO STA 580+00
	T2422-A	UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 580+00 TO STA 635+00
	T2423-A	UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 635+00 TO STA 690+00
	T2424-A	UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 690+00 TO STA 738+88.07

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/24/2011	AS			

DESIGNED BY A. SHIELDS
DRAWN BY A. SHIELDS
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID ALIGNMENT

INDEX OF DRAWINGS
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. T0010-A
SCALE NONE
SHEET NO. ### OF ###

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ABBREVIATIONS

ALIGNMENT

HORIZONTAL

BC	BEGINNING OF CURVE
CS	CURVE TO SPIRAL
EC	END OF CURVE
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CIRCULAR CURVES
PCS	POINT OF CURVE TO SPIRAL
PF	POINT OF FROG
PI	POINT OF INTERSECTION OF TWO TANGENTS
PITO	POINT OF INTERSECTION OF TURNOUT
POC	POINT ON CURVE
POS	POINT ON SPIRAL
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVES
PS	POINT OF SWITCH
PSC	POINT OF SPIRAL TO CURVE
PT	POINT OF TANGENCY
R	RADIUS OF CURVATURE IN FEET
SC	SPIRAL TO CURVE
SPO	POINT OF ORIGIN OF COMPOUND SPIRAL
SS	POINT OF SPIRAL TO SPIRAL
ST	SPIRAL TO TANGENT
TS	TANGENT TO SPIRAL
V	DESIGN VELOCITY IN MILES PER HOUR

VERTICAL

PVC	POINT OF VERTICAL CURVE (BEGINNING OF CURVE)
PVI	POINT OF VERTICAL INTERSECTION (OF TANGENTS)
PVT	POINT OF VERTICAL TANGENCY (ENDING OF CURVE)
VC	VERTICAL CURVE

MISCELLANEOUS

BEG	BEGIN
BLVD	BOULEVARD
℄	CENTER LINE
CL	CENTERLINE, CLASS
CLR	CLEAR
COL	COLUMN
DWG	DRAWING
EQ	EQUATION
EXIST(E)	EXISTING
IN	INCH
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NB	NORTH BOUND
NTS	NOT TO SCALE
OG	ORIGINAL GROUND
O/H OH	OVER HEAD
PG&E	PACIFIC GAS & ELECTRIC
PGL	PROFILE GRADE LINE
RR	RAILROAD
RD	ROAD
R/W ROW	RIGHT OF WAY
RT	RIGHT
SS	SANITARY SEWER
SHT	SHEET
ST	STREET
STD	STANDARD
SD	STORM DRAIN
STRUCT	STRUCTURE
T	TELEPHONE
	(OH) OVERHEAD LINE
	(UG) UNDERGROUND LINE
TOR	TOP OF RAIL
TK	TRACK
TO	TURNOUT
TYP	TYPICAL
TBD	TO BE DETERMINED
TF	TELECOMMUNICATIONS FIBER OPTIC
V VERT	VERTICAL
W	WATER, WEST

SYMBOLS

MATCH LINE

HST TRACK

PROPOSED HST RIGHT-OF-WAY

FREIGHT/PASSENGER TRACK - EXISTING

EXISTING RIGHT-OF-WAY OR EXISTING BRIDGE FEATURES

RETAINING WALLS

ORIGINAL GROUND

G16 — GAS LINE (16")

TC — COMMUNICATION LINE

W — WATER LINE

FO — FIBER OPTIC LINE

E — ELECTRICAL LINE

ELECTRICAL TOWER

S — SEWER LINE

SD — STORM DRAIN LINE

O — FUEL LINE

TC — TELEPHONE LINE

P12 — PETROLEUM LINE (12")

(OH) — OVERHEAD

NORTH ARRROW

PVI

POTENTIAL SOUND BARRIER

NOTES:

1. EXISTING ROADS TO BE GRADE SEPARATED OVER THE HIGH SPEED TRAIN (HST) RIGHT OF WAY ARE INDICATED IN THE ALIGNMENT PROFILE. ALL OTHER ROADS CROSSING THE PROPOSED HST TRACKS WILL BE CLOSED OR RELOCATED. SEE ROADWAY PLANS FOR ADDITIONAL INFORMATION.
2. SEE STRUCTURE PLANS FOR LIMITS AND DETAILS OF VIADUCTS, STREAM CROSSINGS, RETAINING WALLS AND OTHER HST STRUCTURES.
3. SEE ROADWAY PLANS FOR ROADWAY RELOCATIONS, GRADE SEPARATIONS, AND MODIFICATIONS TO STATE HIGHWAY FACILTIES.
4. UTILITIES INDICATED ON THE PLANS ARE FOR REFERENCE ONLY. SEE "UTILITIES CONFLICT MEMO" FOR ADDITIONAL INFORMATION AND PROPOSED RELOCATION CONCEPTS.
5. ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPORVEMENTS.
6. STANDALONE RADIO SITES WILL BE PROVIDED IN BETWEEN TRACTION POWER FACILITIES (SUBSTATIONS, SWITCHING STATIONS, AND PARALLELING STATIONS). SPACING OF THESE SITES WILL VARY BETWEEN 1-1/2 AND 3 MILES. ACCESS TO THESE SITES WILL BE PROVIDED AT THE NEAREST PUBLIC ROAD THAT CROSSES THE HIGH SPEED TRAIN ALIGNMENT.

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY B. CHAN
DRAWN BY S. LEONG
CHECKED BY V. BOOME
IN CHARGE J. VALSECCHI
DATE 07/27/2011

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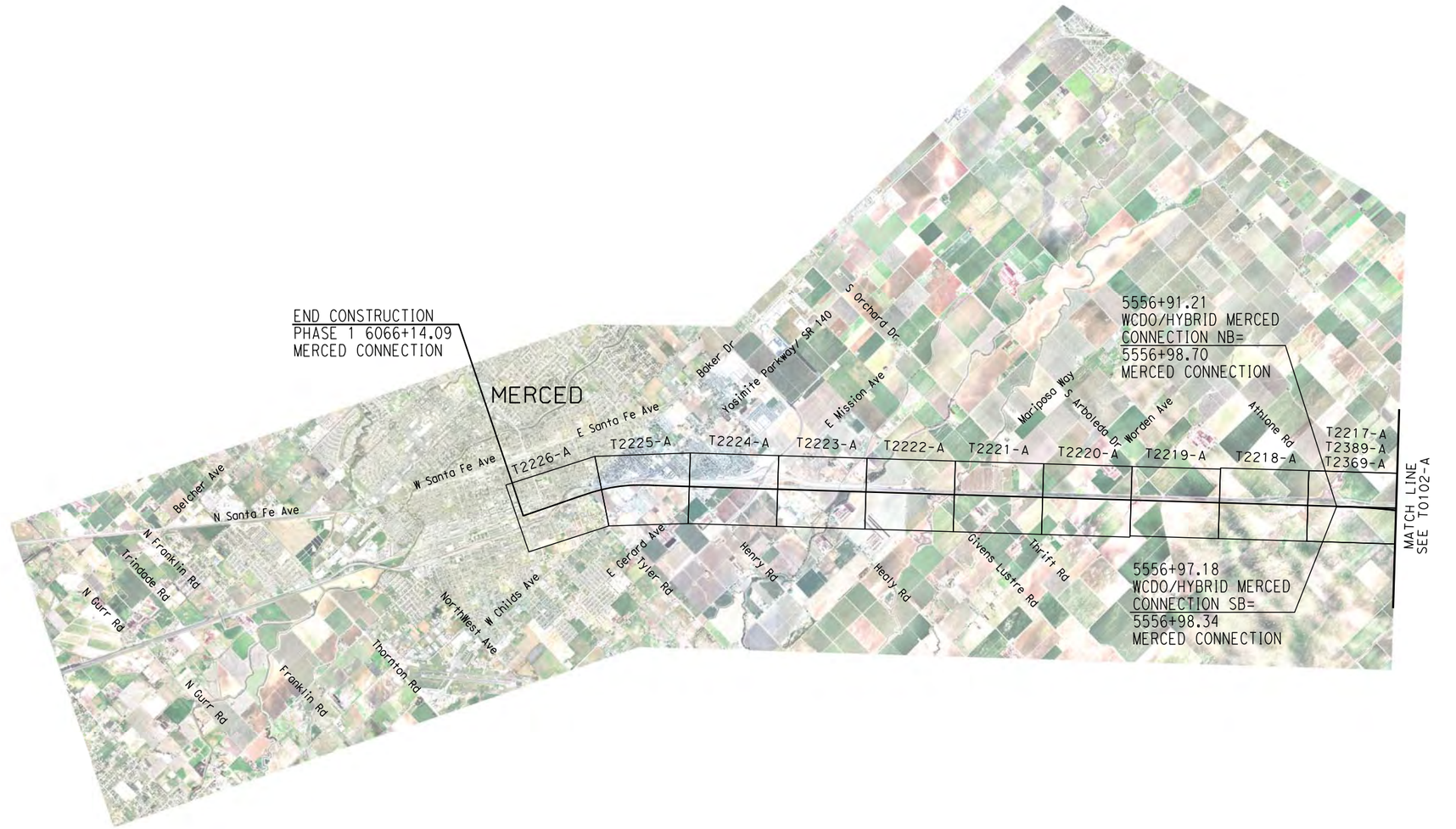
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GENERAL

ABBREVIATIONS, SYMBOLS AND NOTES

CONTRACT NO. HSR06-007
DRAWING NO. T0100-A
SCALE NO SCALE
SHEET NO. ### OF ###

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"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID ALIGNMENT
AVENUE 24
KEY MAP
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. T0101-A
SCALE NO SCALE
SHEET NO. ### OF ###

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shieldsa

LE GRAND

CHOWCHILLA

MADERA

MATCHLINE SEE T0101-A

MATCHLINE SEE T0103-A

PS 393+52.73 NB WYE=
UPRR/SR 99 WCDO/HYBRID
MERCED CONNECTION NB
5298+66.30

PS 5050+38.32 WCDO/HYBRID
MERCED CONNECTION NB=
1245+78.19 AVE 24 ML

PS 5034+79.32 WCDO/HYBRID
MERCED CONNECTION SB=
1260+62.68 WCDO ML

PS 738+88.07 SB WYE=
UPRR/SR 99 WCDO/HYBRID
MERCED CONNECTION SB
5276+63.19

PS 500+00 SB WYE=
955+12.61
BNSF AVE 24 ML

BEGIN M-F SEGMENT
BNSF AVE 24
897+24.31

PS 107+82.52 NB WYE=
931+75.47
BNSF AVE 24 ML

TO SAN JOSE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID ALIGNMENT
AVENUE 24
KEY MAP
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. T0102-A
SCALE NO SCALE
SHEET NO. ### OF ###

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"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/27/2011

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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID ALIGNMENT
AVENUE 24
KEY MAP
SHEET 3 OF 3

CONTRACT NO.: HSR06-007
DRAWING NO.: T0103-A
SCALE: NO SCALE
SHEET NO.: ### OF ###

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TRACK ALIGNMENT CURVE DATA SUMMARY TABLE-HYBRID MAIN LINE SB

CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
HYBRID225	250	40500	4.06	2.93	1300	1389+53.83	1723+31.35	T1102-A
HYBRID202	250	28000	6.00	2.93	2000	2106+38.05	2169+50.77	T1115-A
HYBRID203	250	28000	6.00	2.93	2000	2280+10.37	2414+40.72	T1118-A
HYBRID204	250	28016.5	6.00	2.93	2000	2458+01.31	2561+46.71	T1121-A
HYBRID205	250	28016.5	6.00	2.93	2000	2599+58.87	2731+68.17	T1124-A
HYBRID206	250	42995.5	3.25	2.56	1199.87	2708+55.57	2748+44.15	T1127-A
HYBRID207	250	43000	3.25	2.56	1200	2852+76.45	2927+63.38	T1130-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE-HYBRID MAIN LINE NB

	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
HYBRID125	250	40500	4.06	2.93	1300	1389+53.83	1723+31.35	T1102-A
HYBRID102	250	28016.5	6.00	2.93	2000	2106+50.94	2169+66.78	T1115-A
HYBRID103	250	28016.5	6.00	2.93	2000	2580+25.80	2414+74.09	T1118-A
HYBRID104	250	28000	6.00	2.93	2000	2458+24.68	2566+63.96	T1121-A
HYBRID105	250	28000	6.00	2.93	2000	2599+58.87	2731+68.17	T1121-A
HYBRID106	250	43012	3.25	2.56	1200	2708+55.57	2748+44.15	T1127-A
HYBRID107	250	43016.5	3.25	2.56	1200	2852+76.45	2927+63.38	T1130-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR HYBRID-SB MERCED CONNECTION

CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR238	150	32000			220	5058+80.31	5070+68.54	T2380-A
UPRR239	150	24000	1.25	2.50	220	5070+68.54	5080+47.49	T2380-A
UPRR240	145	10000	5.50	2.91	1000	5085+76.31	5253+03.33	T2381-A
UPRR241	250	28000	6.00	3.00	2000	5318+28.64	5556+97.18	T2385-A
UPRR115	150	10000	6.00	3.00	1200	5981+82.99	6030+04.80	T2225-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - HYBRID-NB MERCED CONNECTION

CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR238	150	32000			220	5061+66.32	5071+80.46	T2360-A
UPRR239	150	24000	1.25	2.50	220	5071+80.46	5080+29.07	T2360-A
UPRR140	145	10000	5.50	2.91	1000	5086+34.11	5253+61.04	T2361-A
UPRR141	250	28016.5	6.00	3.00	2000	5318+09.77	5556+91.21	T2365-A
UPRR215	150	10016.5	6.00	3.00	1200	5981+82.99	6030+04.80	T2225-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WCDO/HYBRID WYE-SB CONNECTION

CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR243	150	32000			220	148+82.51	161+03.62	T2410-A
UPRR244	150	20208.38	1.25	2.50	220	120+03.63	127+73.63	T2411-A
UPRR245	150	10000	6.00	3.00	1200	179+44.88	348+32.82	T2411-A
UPRR246	150	24000	1.25	2.50	220	363+61.57	372+01.33	T2414-A
UPRR247	150	32000			220	372+01.33	382+24.68	T2414-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WCDO/HYBRID WYE-NB CONNECTION

CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR143	150	32000			220	524+67	534+80.96	T2421-A
UPRR144	150	24028.48	1.25	2.50	220	534+63.17	543+30.17	T2421-A
UPRR145	145	10000	6.00	2.41	1000	548+58.65	715+47.65	T2421-A
UPRR146	150	24000	1.25	2.50	220	721+33.73	728+73.02	T2424-A
UPRR147	150	32000			220	728+73.02	738+88.07	T2424-A

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY A. SHIELDS
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

HYBRID ALIGNMENT

TRACK GEOMETRY DATA
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. T0150-A
SCALE NO SCALE
SHEET NO. OF ###

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ALTERNATIVE HYBRID AVENUE 24

ALIGNMENT	BEGIN STATION	END STATION	SECTION
HYBRID 24	892+90	926+80	AG2
	926+80	1020+00	WYE1
	1020+00	1185+00	AG2
	1185+00	1230+00	WYE1
	1230+00	1360+00	AG2
	1360+00	1375+00	RF2
	1375+00	1435+00	EL1
	1435+00	1443+00	RF2
	1443+00	2681+00	AG2
	2681+00	2695+00	RF2
	2695+00	2731+50	EL1
	2731+50	2740+55	EL5
HYBRID-FR			
	1713+98	1737+00	EL6
	1737+00	1764+78	EL7
	1764+78	1767+00	EL8
	1767+00	1788+84	RF3
	1788+84	1843+35	AG6
	1843+35	1893+95	RF3
	1893+95	1958+00	AG6
	1958+00	2072+36	AG7
UPRR/SR 99 WCDO/HYBRID MC SB			
	5061+66	5015+00	WYE1
	5015+00	5235+00	AG4
	5235+00	5285+00	WYE 1
	5288+00	5556+91	AG2
UPRR/SR 99 WCDO/HYBRID MC NB			
	5058+80	5110+00	WYE1
	5110+00	5121+00	EL2
	5121+00	5127+00	RF2
	5127+00	5235+00	AG4
	2535+00	5285+00	WYE1
	5285+00	5597+00	AG2
UPRR/SR 99-21MC			
	5556+98	5910+00	AG1
	5910+00	5916+50	TR2
	5916+50	5917+60	CC1
	5917+60	5925+00	TR2
	5925+00	5977+70	AG1
	5977+70	5989+20	TR2
	5989+20	5990+20	CC1
	5990+20	6003+00	TR2
	6003+00	6022+00	AG1
	6022+00	6040+60	TR2
	6040+60	6042+90	CC1
	6042+90	6052+50	TR1
	6052+50	6066+20	AG5
UPRR/SR 99 WCDO/HYBRID WC NB			
	148+82	205+00	WYE1
	205+00	211+00	EL2
	211+00	219+00	RF2
	219+00	313+50	AG4
	313+50	320+00	RF2
	320+00	330+00	EL2
	330+00	382+25	WYE1
UPRR/SR 99 WCDO/HYBRID WC SB			
	524+67	570+00	WYE1
	570+00	695+00	AG4
	695+00	738+88	WYE1

ALTERNATIVE HYBRID AVENUE 21

ALIGNMENT	BEGIN STATION	END STATION	SECTION
HYBRID 21	892+90	330+00	AG2
	330+00	430+00	WYE1
	430+00	565+00	AG2
	565+00	580+00	RF2
	580+00	630+00	EL1
	630+00	640+00	RF2
	640+00	680+00	WYE1
	680+00	868+87=	AG2
	1865+00	2681+00	AG2
	2681+00	2695+00	RF2
	2695+00	2731+50	EL1
	2731+50	2740+55	EL5
HYBRID-FR			
	1713+98	1737+00	EL6
	1737+00	1764+78	EL7
	1764+78	1767+00	EL8
	1767+00	1788+84	RF3
	1788+84	1843+35	AG6
	1843+35	1893+95	RF3
	1893+95	1958+00	AG6
	1958+00	2072+36	AG7
HYBRID MC SB - 21			
	200+20	250+00	WYE1
	250+00	290+00	EL2
	290+00	377+99	EL1
HYBRID MC NB - 21			
	500+00	550+00	WYE1
	550+00	590+00	EL2
	590+00	677+40	EL1
UPRR/SR 99-21MC			
	4907+27	4975+00	EL1
	4975+00	5045+00	WYE2
	5045+00	5385+00	EL1
	5385+00	5425+00	RF2
	5425+00	5910+00	AG1
	5910+00	5915+50	TR2
	5915+50	5916+60	CC1
	5916+60	5924+00	TR2
	5924+00	5977+70	AG1
	5977+70	5989+30	TR2
	5989+30	5990+40	CC1
	5990+40	6003+00	TR2
	6003+00	6022+00	AG1
	6022+00	6040+60	TR2
	6040+60	6042+90	CC1
	6042+90	6052+50	TR1
	6052+50	6066+20	AG5
UPRR/SR 99-21WC NB			
	505+00	610+00	WYE1
	610+00	619+50	EL2
	619+50	628+35	RF1
	628+35	714+80	AG4
	714+80	724+20	RF1
	724+20	780+00	EL2
	780+00	846+94	WYE2
UPRR/SR 99-21WC SB			
	105+00	180+00	WYE1
	180+00	298+80	AG4
	298+80	313+21	RF1
	131+21	340+00	EL2
	340+00	397+52	WYE2

ALTERNATIVE BNSF AVENUE 21

ALIGNMENT	BEGIN STATION	END STATION	SECTION
BNSF-21ML	267+41	562+00	AG2
	562+00	582+61	RF2
	582+61	634+76	EL1
	634+76	665+80	RF2
	665+80	859+40	AG2
	859+40	881+05	RF2
	881+05	925+00	EL1
	925+00	985+00	WYE1
	985+00	1042+75	EL1
	1042+75	1060+00	RF2
	1060+00	1305+00	AG1
	1305+00	1685+00	AG2
	1685+00	1696+00	RF2
	1667+59	1731+50	EL1
	1731+50	1741+00	EL5
BNSF-FR			
	1713+98	1737+00	EL6
	1737+00	1764+78	EL7
	1764+78	1767+00	EL8
	1767+00	1788+84	RF3
	1788+84	1843+35	AG6
	1843+35	1893+95	RF3
	1893+95	1958+00	AG6
	1958+00	2072+36	AG7
BNSF-21WC NB			
	105+85	205+00	WYE2
	205+00	220+66	EL2
	220+66	230+00	RF1
	230+00	357+00	AG4
	357+00	371+02	RF1
	371+02	383+00	EL2
	383+00	474+09	WYE1
BNSF-21WC SB			
	500+00	550+00	WYE2
	550+00	720+00	AG4
	720+00	765+39	WYE1
BNSF-MC			
	4302+03	4345+02	EL2
	4345+02	4351+00	RF1
	4351+00	4405+00	WYE1
	4405+00	5296+45	AG1
	5269+45	5266+88	RF2
	5266+88	5352+88	EL3
	5352+88	5371+50	RF2
	5371+50	5850+85	AG1
	5850+85	5866+57	RF2
	5866+57	5960+00	EL1
	5960+00	5967+00	RF2
	5967+00	5977+70	AG1
	5977+70	5989+20	TR2
	5989+20	5990+20	CC1
	5990+20	6003+00	TR2
	6003+00	6022+00	AG1
	6022+00	6040+60	TR2
	6040+60	6042+90	CC1
	6042+90	6052+50	TR1
	6052+50	6066+20	AG5

ALTERNATIVE BNSF AVENUE 24

ALIGNMENT	BEGIN STATION	END STATION	SECTION
BNSF-24ML	892+90	1185+00	AG2
	1185+00	1235+00	WYE1
	1235+00	1332+20	AG2
	1332+20	1350+84	RF2
	1350+84	1430+00	WYE2
	1430+00	1431+49	EL1
	1431+49	1451+90	RF2
	1451+90	1864+25	AG2
	1864+25	1881+05	RF2
	1881+05	1890+17	EL1
BNSF-24WC NB			
	104+65	195+00	WYE2
	195+00	220+66	EL2
	220+66	227+55	RF1
	227+55	400+70	AG4
	400+70	438+00	RF1
	438+00	450+00	EL2
	450+00	477+55	WYE1
	477+55	508+20	RF1
	508+20	576+13	AG4
BNSF-24WC SB			
	500+00	582+14	WYE2
	582+14	592+75	RF1
	592+75	840+00	AG4
	840+00	896+06	WYE1

ALTERNATIVE UPRR/SR 99 AVENUE 21

ALIGNMENT	BEGIN STATION	END STATION	SECTION
UPRR/SR 99-21ML	270+60	604+70	AG2
	604+70	626+28	RF2
	626+28	715+00	EL1
	715+00	805+00	WYE1
	805+00	1294+33	EL1
	1294+33	1305+00	RF2
	1305+00	1570+00	AG1
	1570+00	1593+20	TR2
	1593+20	1594+10	CC1
	1594+10	1610+00	TR2
	1610+00	1615+00	AG1
	1615+00	1622+00	RF2
	1622+00	1635+00	EL1
	1635+00	1633+24	EL5
UPRR/SR 99-FR			
	1713+98	1737+00	EL6
	1737+00	1764+78	EL7
	1764+78	1767+00	EL8
	1767+00	1788+84	RF3
	1788+84	1843+35	AG6
	1843+35	1893+95	RF3
	1893+95	1958+00	AG6
	1958+00	2072+36	AG7
UPRR/SR 99-21WC NB			
	505+00	610+00	WYE1
	610+00	619+50	EL2
	619+50	628+35	RF1
	628+35	714+80	AG4
	714+80	724+20	RF1
	724+20	780+00	EL2
	780+00	846+94	WYE2
UPRR/SR 99-21WC SB			
	105+00	180+00	WYE1
	180+00	298+80	AG4
	298+80	313+21	RF1
	131+21	340+00	EL2
	340+00	397+52	WYE2
UPRR/SR 99-21MC			
	4586+50	4670+00	WYE1
	4670+00	4796+00	AG1
	4796+00	4810+00	RF2
	4810+00	4975+00	EL1
	4975+00	5045+00	WYE2
	5045+00	5385+00	EL1
	5385+00	5425+00	RF2
	5425+00	5910+00	AG1
	5910+00	5915+50	TR2
	5915+50	5916+60	CC1
	5916+60	5924+00	TR2
	5924+00	5977+70	AG1
	5977+70	5989+30	TR2
	5989+30	5990+40	CC1
	5990+40	6003+00	TR2
	6003+00	6022+00	AG1
	6022+00	6040+60	TR2
	6040+60	6042+90	CC1
	6042+90	6052+50	TR1
	6052+50	6066+20	AG5

ALTERNATIVE UPRR/SR 99 AVENUE 24

ALIGNMENT	BEGIN STATION	END STATION	SECTION
UPRR/SR 99-24ML	917+20	965+00	AG2
	965+00	1030+00	WYE1
	1030+00	1330+00	AG2
	1330+00	1380+00	RF2
	1380+00	1515+00	EL1
	1515+00	1590+00	EL5
UPRR/SR 99-24WC NB	1590+00	1753+40	EL1
	105+00	205+00	WYE1
	205+00	220+00	EL2
	220+00	227+00	RF1
	227+00	349+90	AG4
	349+90	494+12	AG2
	494+12	521+00	AG4
	521+00	527+00	RF1
	527+00	555+00	EL2
	555+00	626+90	WYE1
UPRR/SR 99-24WC SB			
	705+00	775+00	WYE1
	775+00	921+72	AG4
	921+72	1062+85	AG2
	1062+85	1130+00	AG4
	1130+00	1191+24	WYE 1
UPRR/SR 99-24MC			
	4760+15	4845+00	WYE2
	4845+00	4907+25	EL1

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A.SHIELDS
DRAWN BY A. SHIELDS
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
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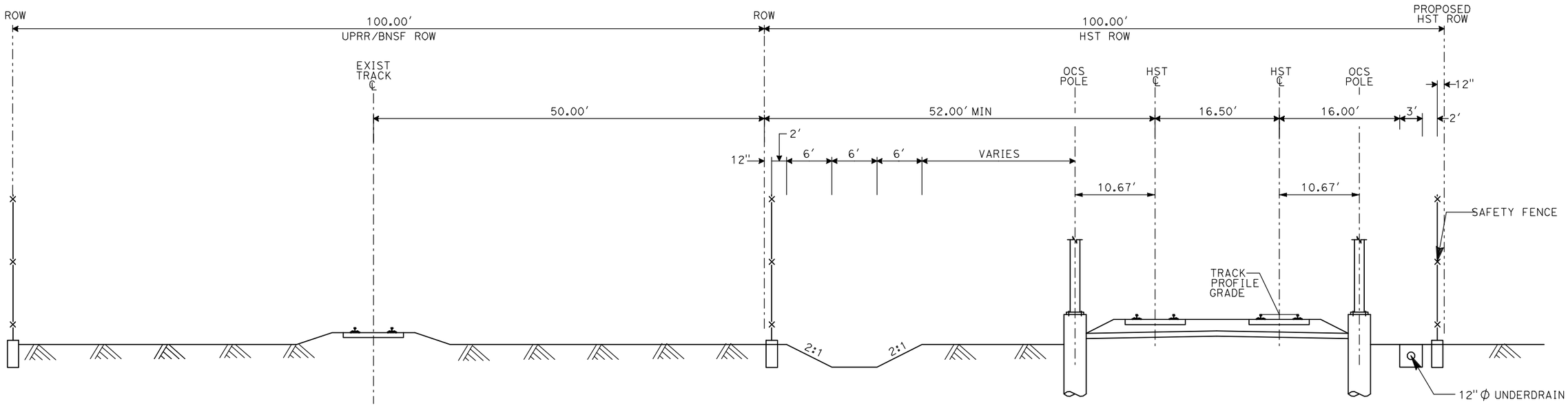
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

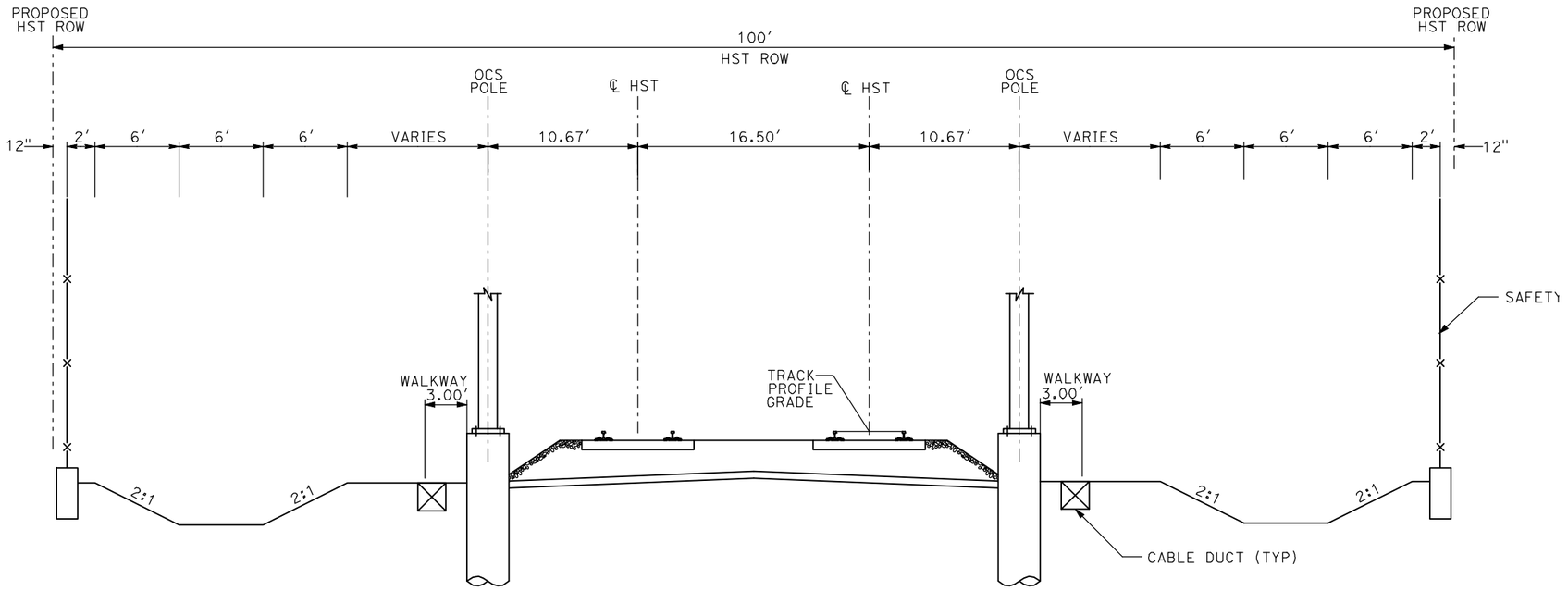
GENERAL

TYPICAL SECTION LIMITS

CONTRACT NO. HSR06-007
DRAWING NO. T3000-A
SCALE NO SCALE
SHEET NO. ### OF ###



AG1- DOUBLE TRACK AT GRADE ADJACENT TO UPRR/BNSF



AG2 - DOUBLE TRACK AT GRADE

NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: C. VALADAO
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

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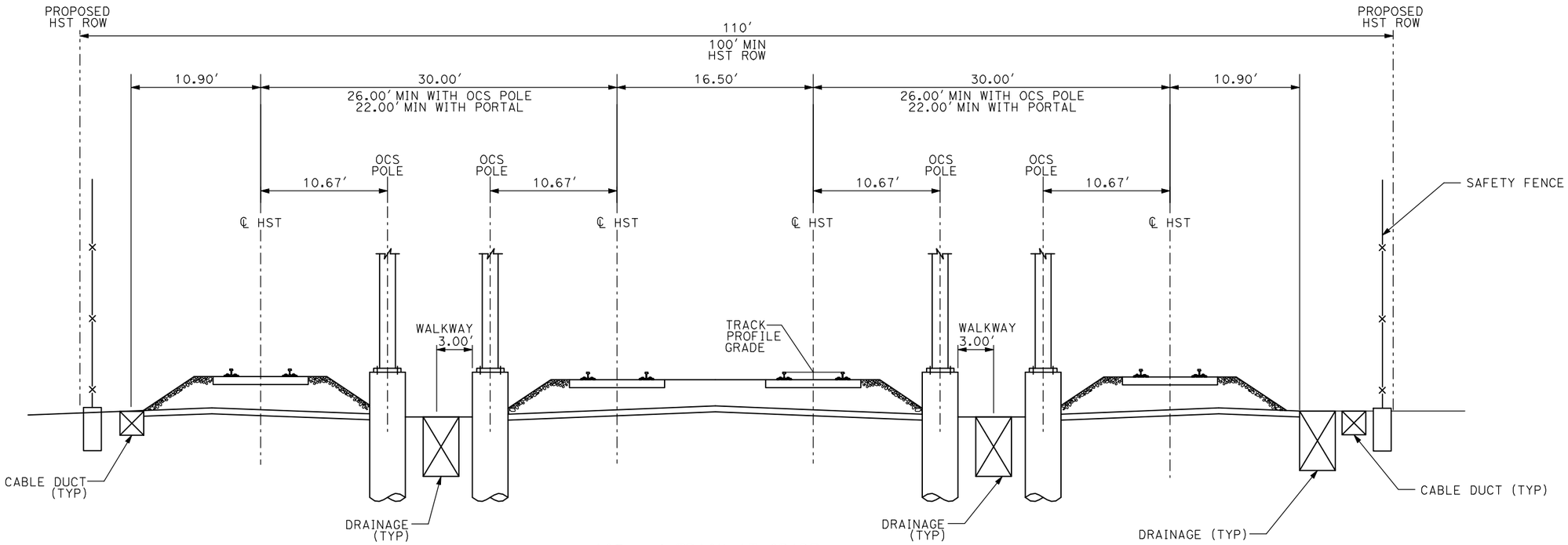
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

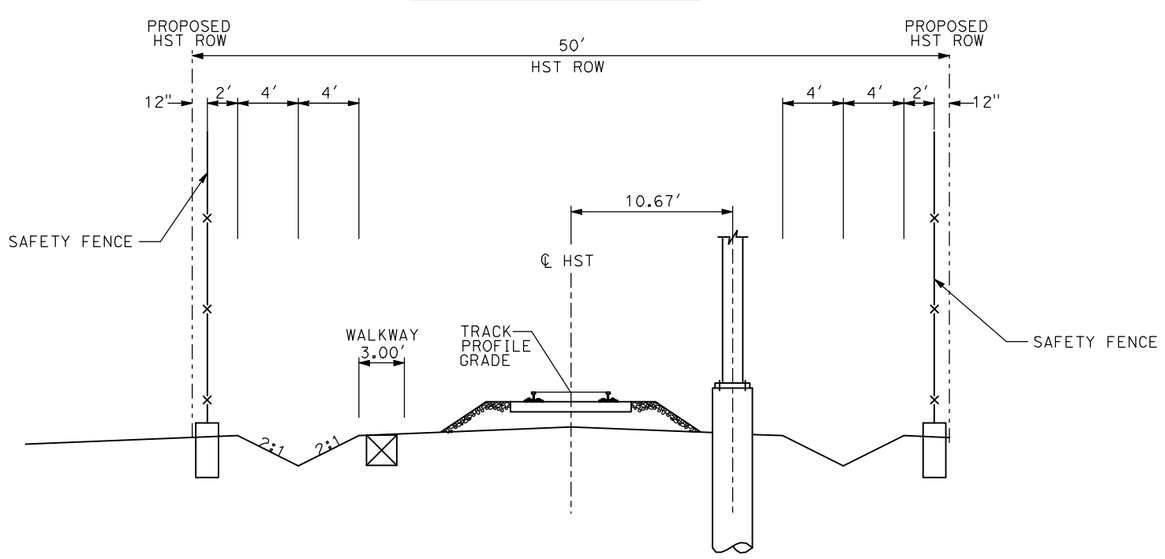
TYPICAL SECTIONS
SHEET 1 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3001-A
SCALE NO SCALE
SHEET NO. OF ###

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ShieldsA



AG3 - 4 TRACK AT GRADE



AG4 - SINGLE TRACK AT GRADE

NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY C. VALADAO
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811
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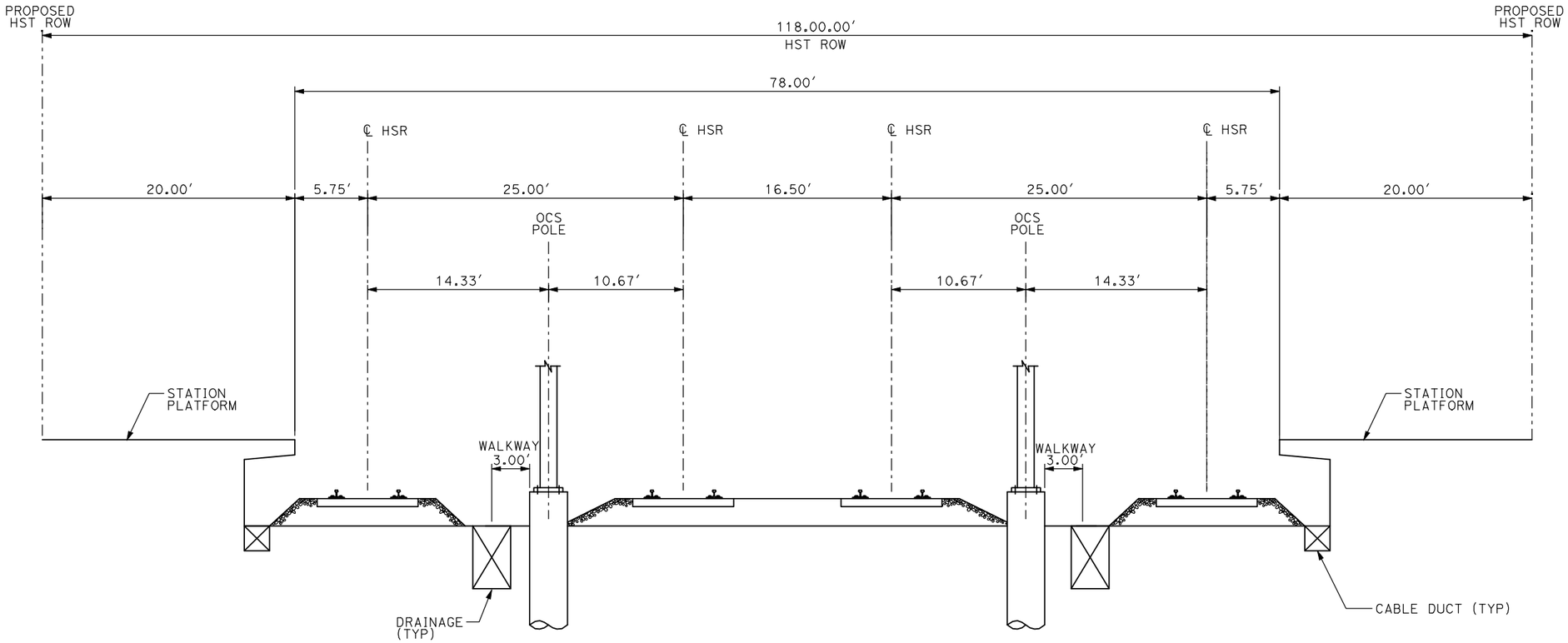
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 2 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3002-A
SCALE NO SCALE
SHEET NO. OF ###

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ShieldsA



AG5 - 4 TRACK AT GRADE MERCED STATION

NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: C. VALADAO
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL

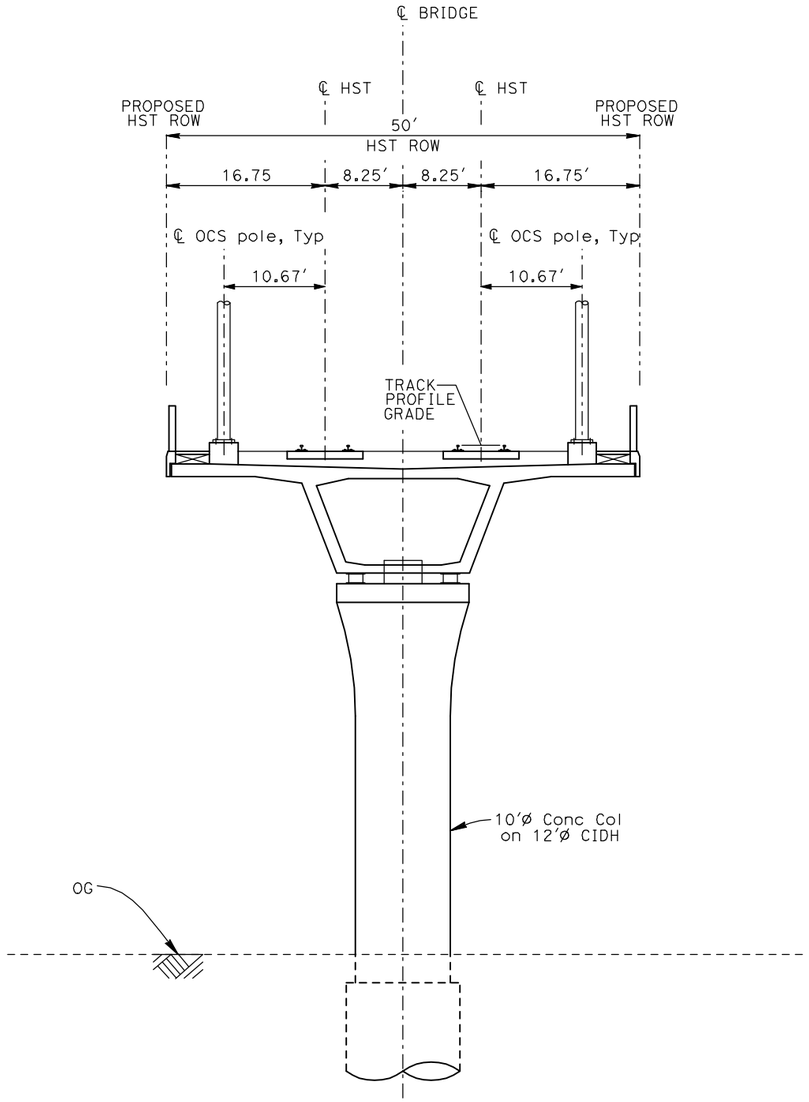
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

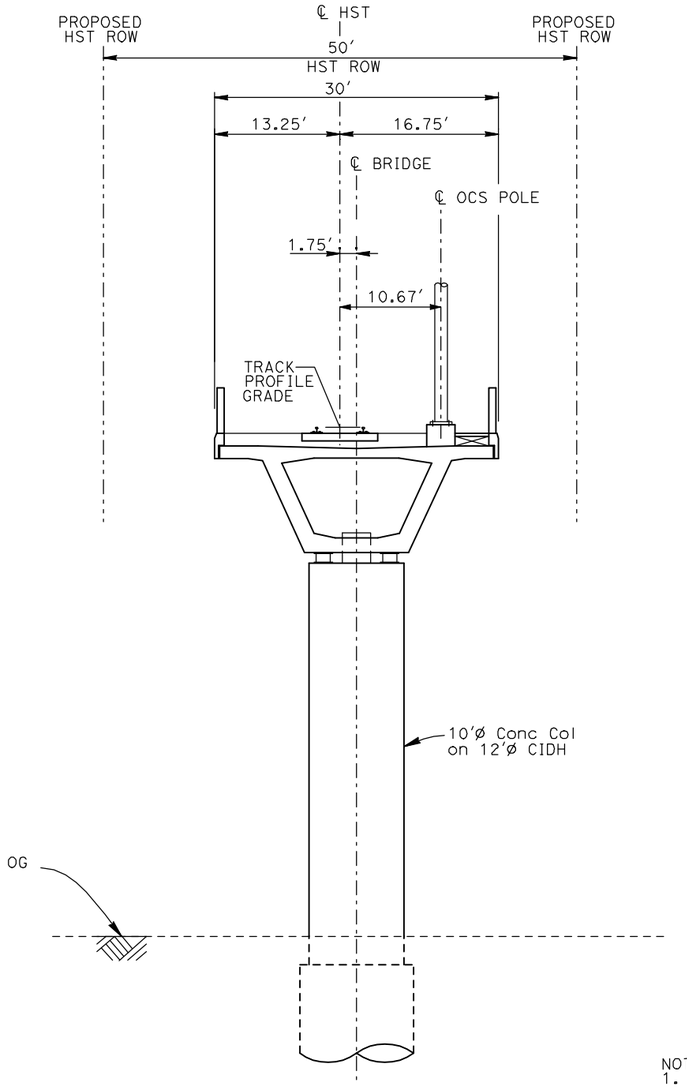
TYPICAL SECTIONS
SHEET 3 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3003-A
SCALE NO SCALE
SHEET NO. OF ###

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ShieldsA



EL1 - DOUBLE TRACK ELEVATED



EL2 - SINGLE TRACK ELEVATED

NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. BACK-TO-BACK CANTILEVERS ON A SINGLE POLE MAY BE PERMITTED AT PASSENGER STATIONS.
3. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: C. VALADAO
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

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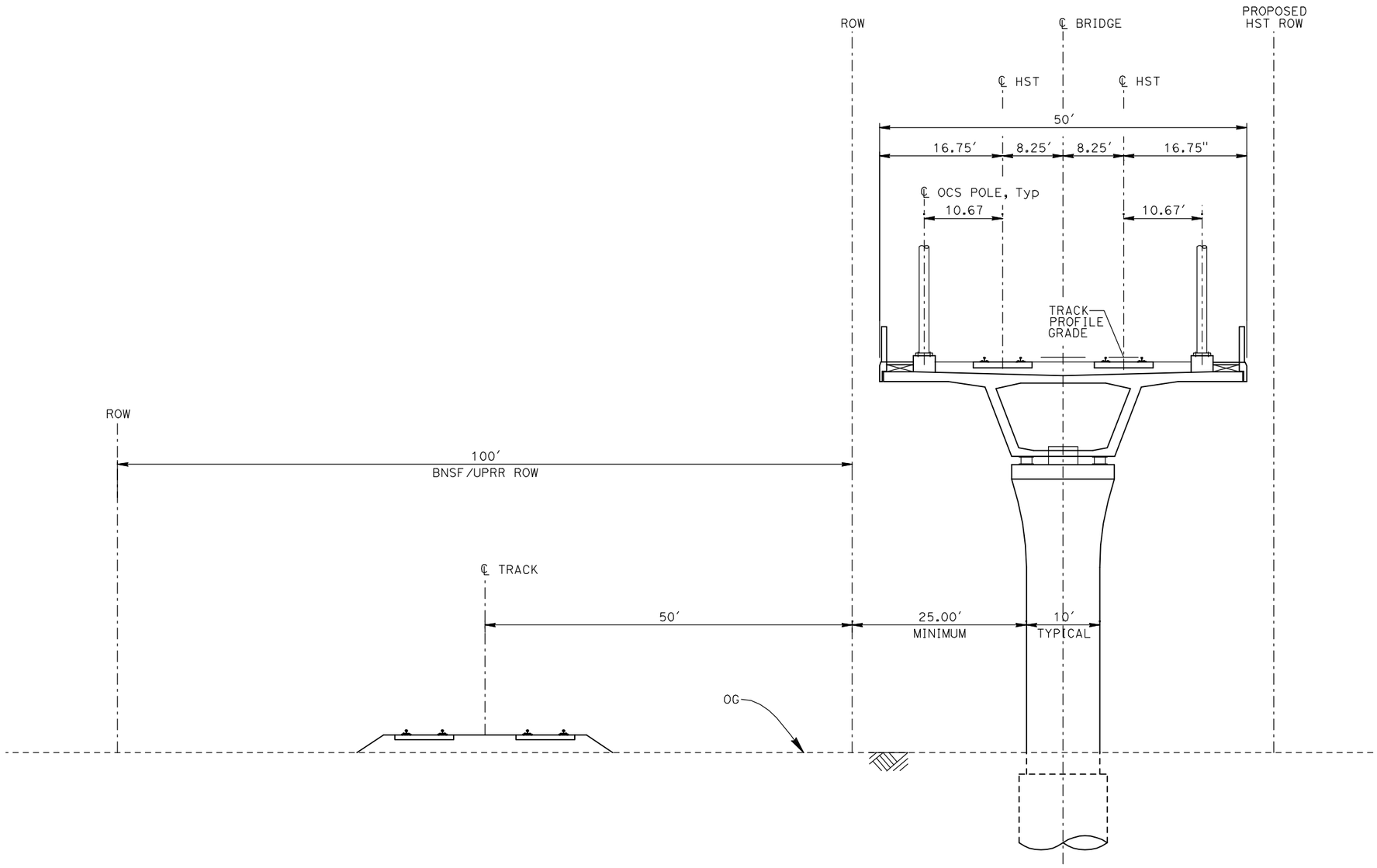
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 4 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3004-A
SCALE NO SCALE
SHEET NO. OF ###

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ShieldsA



EL3 - DOUBLE TRACK ELEVATED ADJACENT TO UPRR/BNSF

NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: C. VALADAO
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

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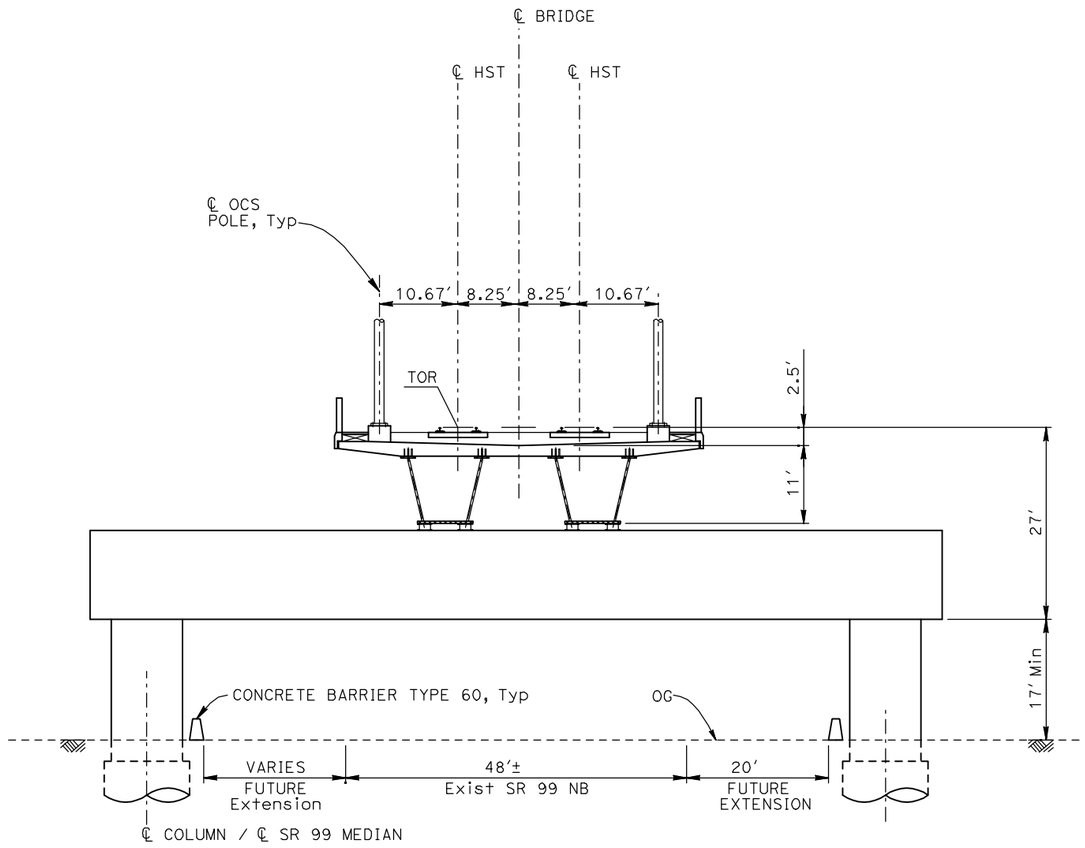
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

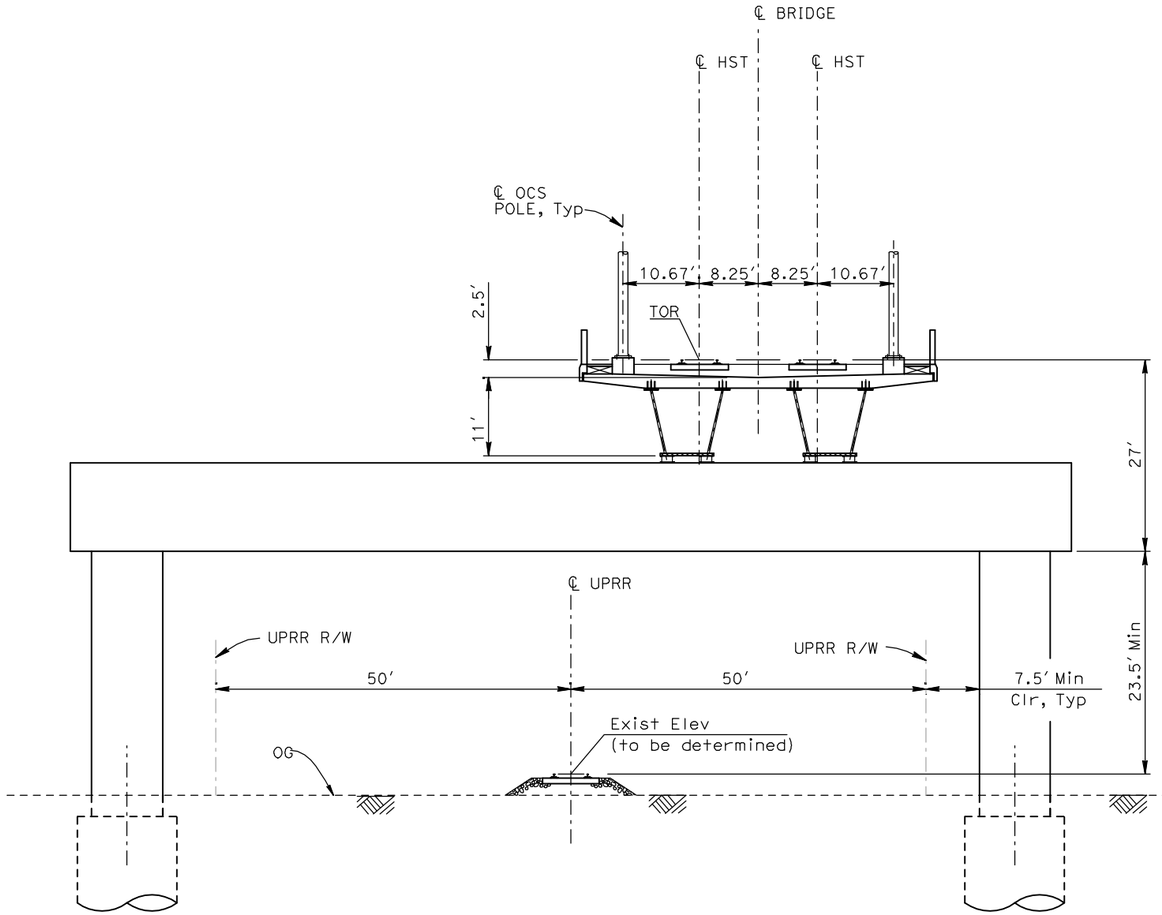
TYPICAL SECTIONS
SHEET 5 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3005-A
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ShieldsA



EL4 - DOUBLE TRACK ELEVATED CROSSING SR99



EL5 - DOUBLE TRACK ELEVATED CROSSING UPRR/BNSF

NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: C. VALADAO
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
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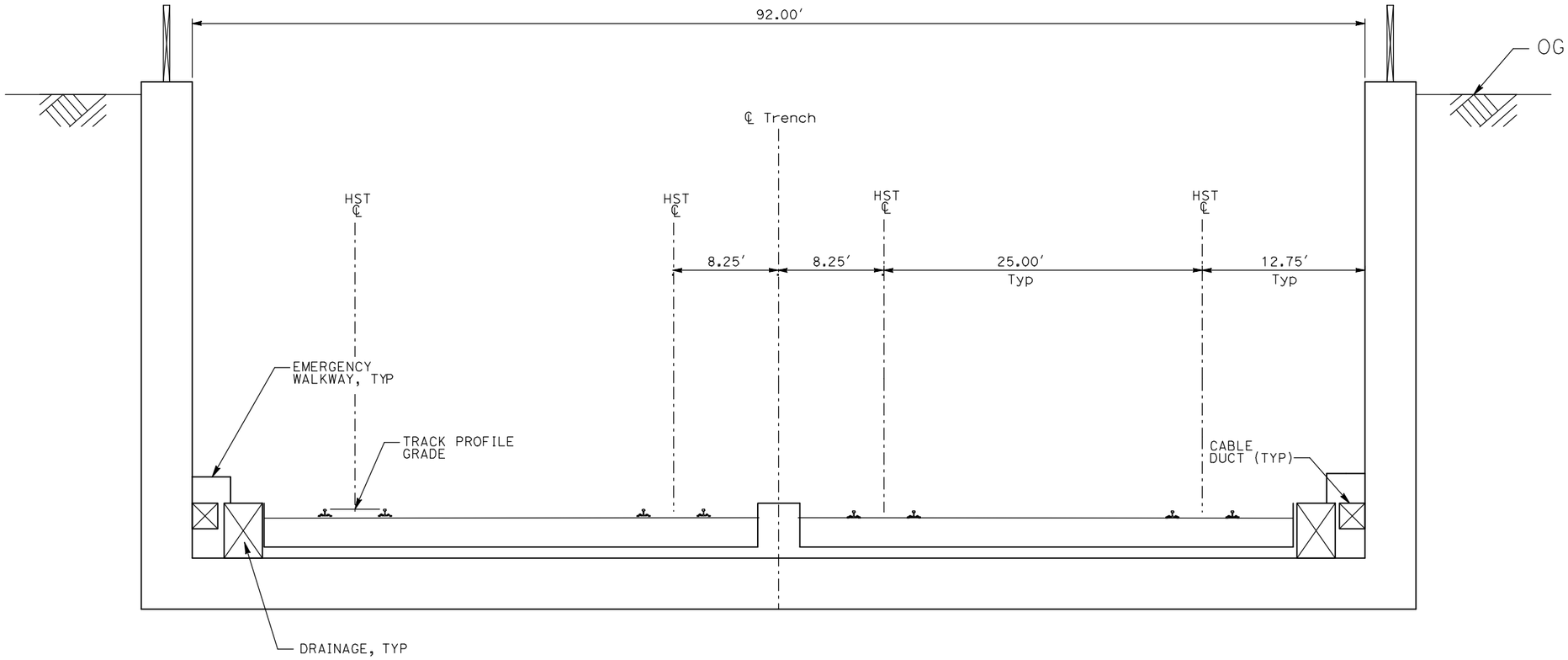
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 6 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3006-A
SCALE NO SCALE
SHEET NO. OF ###

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ShieldsA



TR1 - 4 TRACK TRENCH STATION APPROACH

NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: C. VALADAO
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

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CH2MHILL

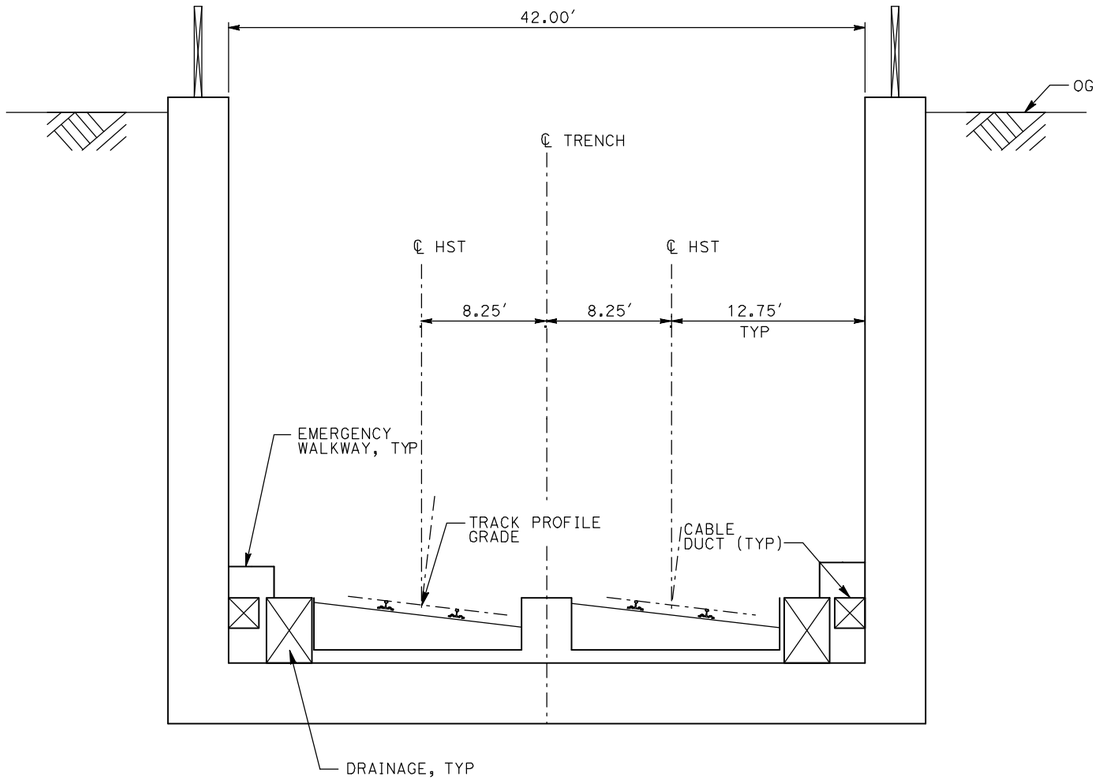
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

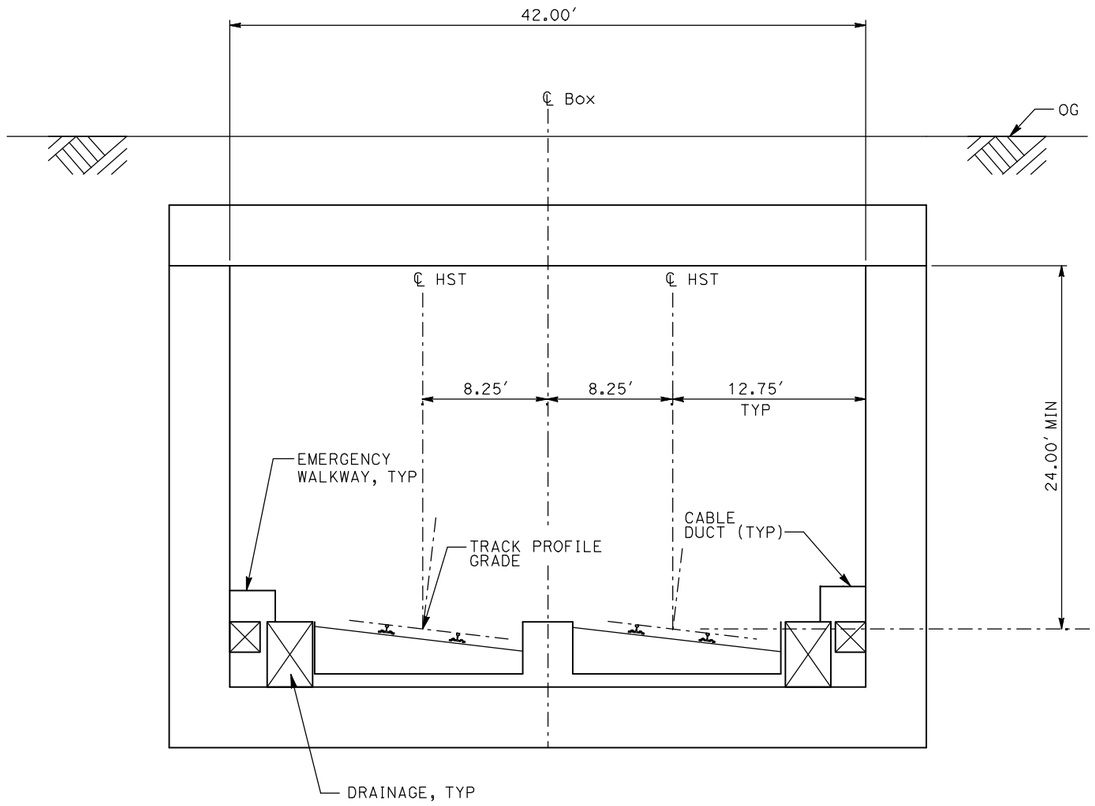
TYPICAL SECTIONS
SHEET 7 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3007-A
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ShieldsA



TR2 - 2 TRACK TRENCH



CC1 - 2 TRACK CUT AND COVER CLOSED BOX

NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: C. VALADAO
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

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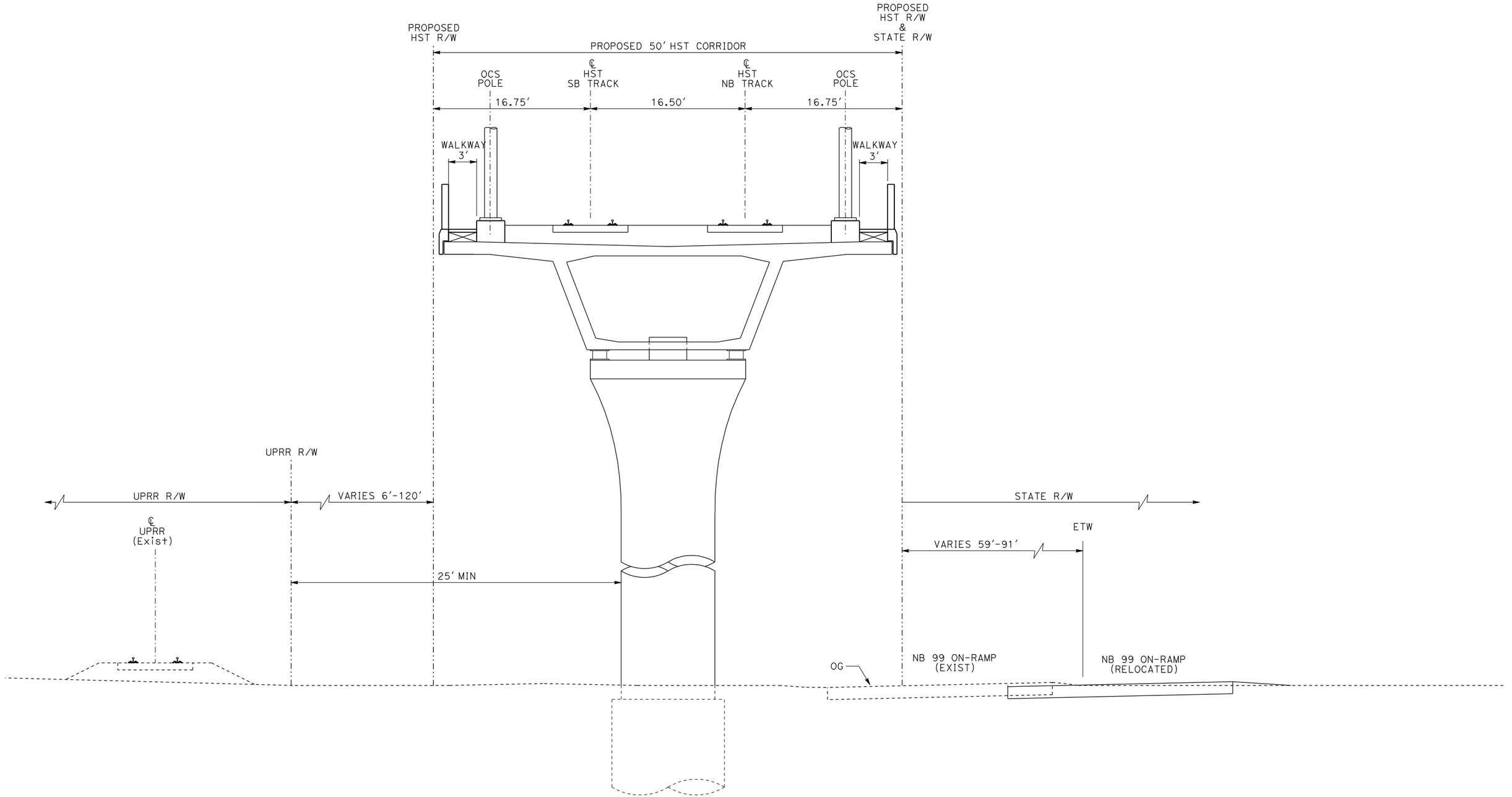
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 8 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3008-A
SCALE NO SCALE
SHEET NO. OF ###

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ShieldsA



EL6 - DOUBLE TRACK ELEVATED ADJACENT TO UPRR

NOTE:

POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET 15% DESIGN SUBMITTAL

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

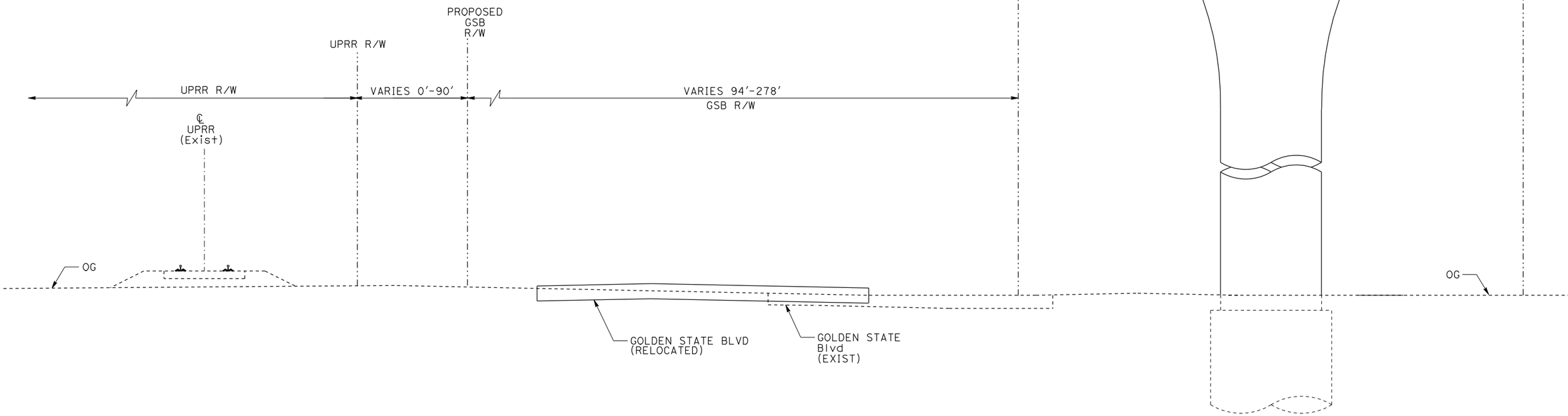
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 9 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3009-A
SCALE NO SCALE
SHEET NO.

DATE PLOTTED => 21-JUL-2011
TIME PLOTTED => 12:38

USERNAME => lwebster
DGN FILE => MF-T-3009-A1-EIR.dgn



EL7 - DOUBLE TRACK ELEVATED ADJACENT TO GOLDEN STATE BOULEVARD

NOTE:

POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

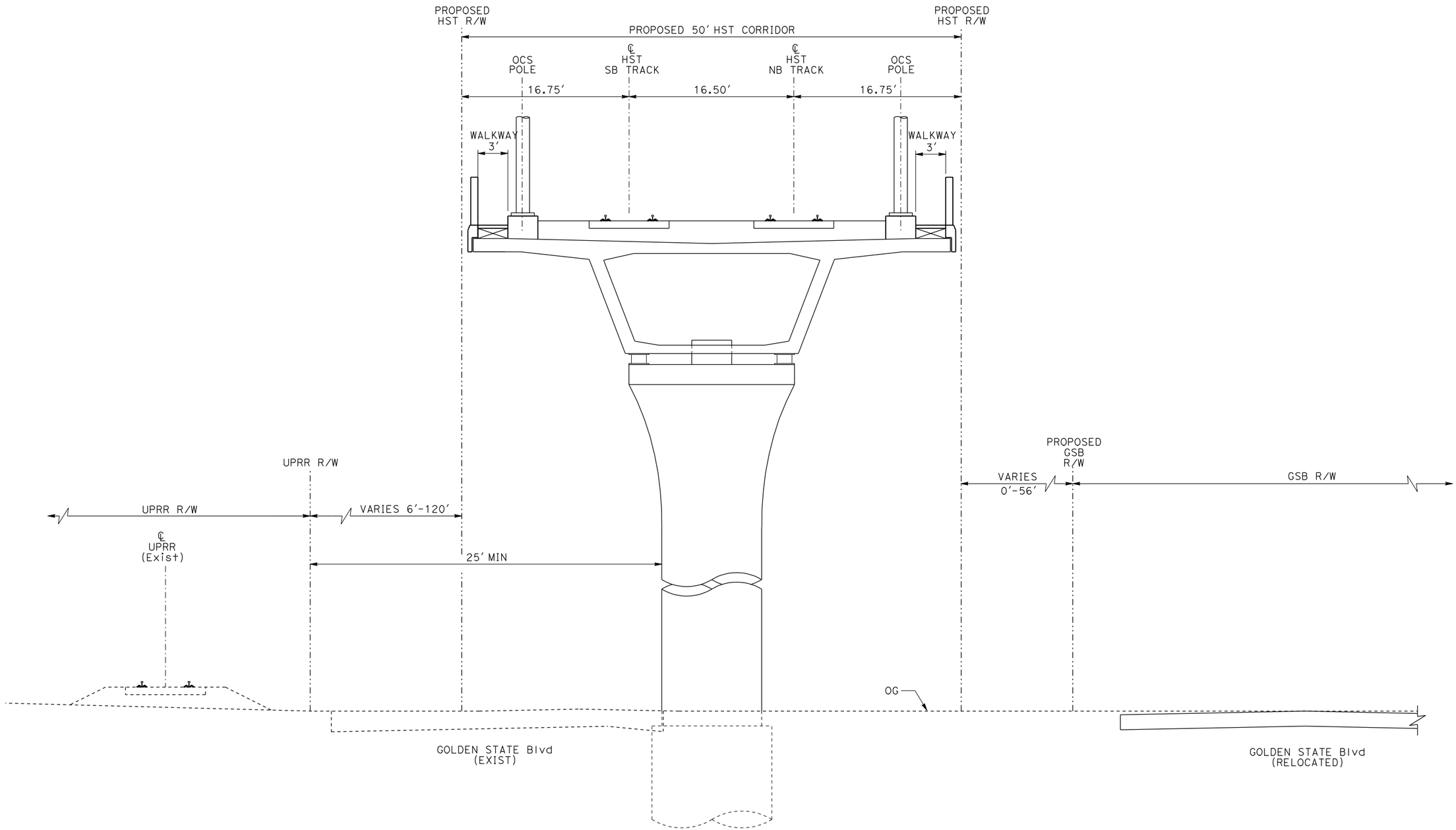
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 10 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3010-A
SCALE NO SCALE
SHEET NO.

DATE PLOTTED => 21-JUL-2011
TIME PLOTTED => 12:44

USERNAME => lwebster
DGN FILE => MF-T-3010-A1-EIR.dgn



EL8 - DOUBLE TRACK ELEVATED BETWEEN UPRR AND GOLDEN STATE BOULEVARD

NOTE:

POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET
15% DESIGN SUBMITTAL

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

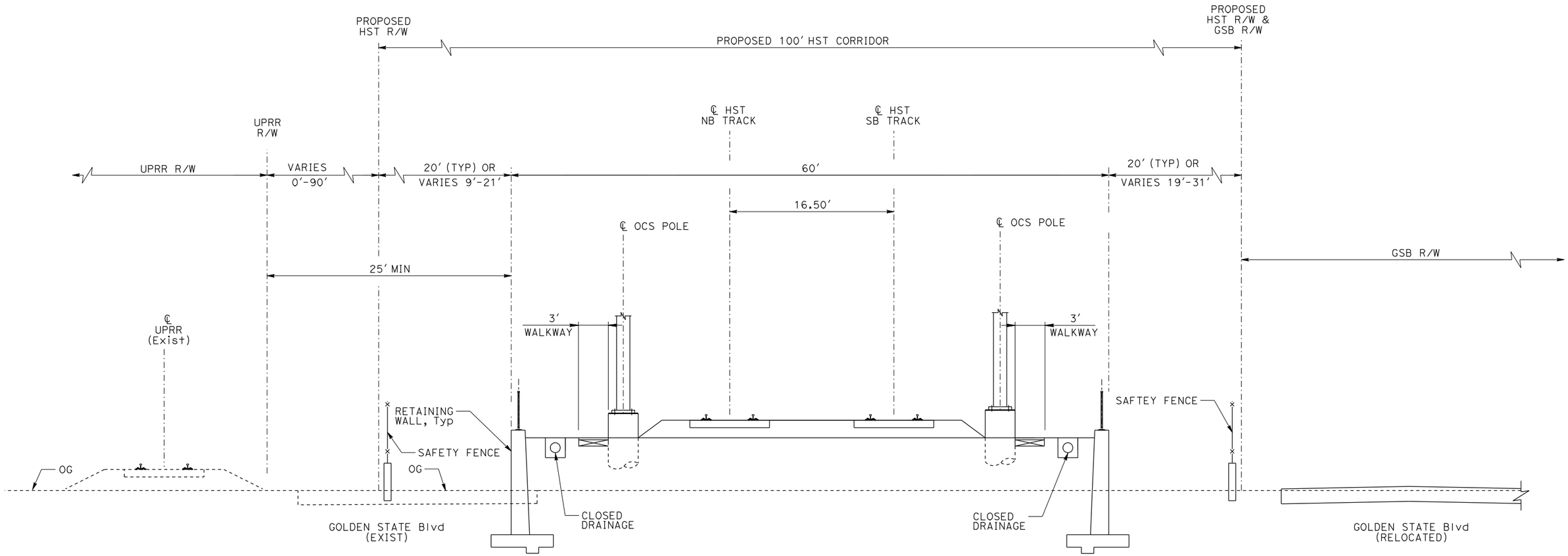
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 11 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3011-A
SCALE NO SCALE
SHEET NO.

DATE PLOTTED => 21-JUL-2011
TIME PLOTTED => 12:45

USERNAME => lwebster
DGN FILE => MF-T-3011-A1-EIR.dgn



RF3 - DOUBLE TRACK BETWEEN UPRR AND GOLDEN STATE BOULEVARD

NOTE:

POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET 15% DESIGN SUBMITTAL

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

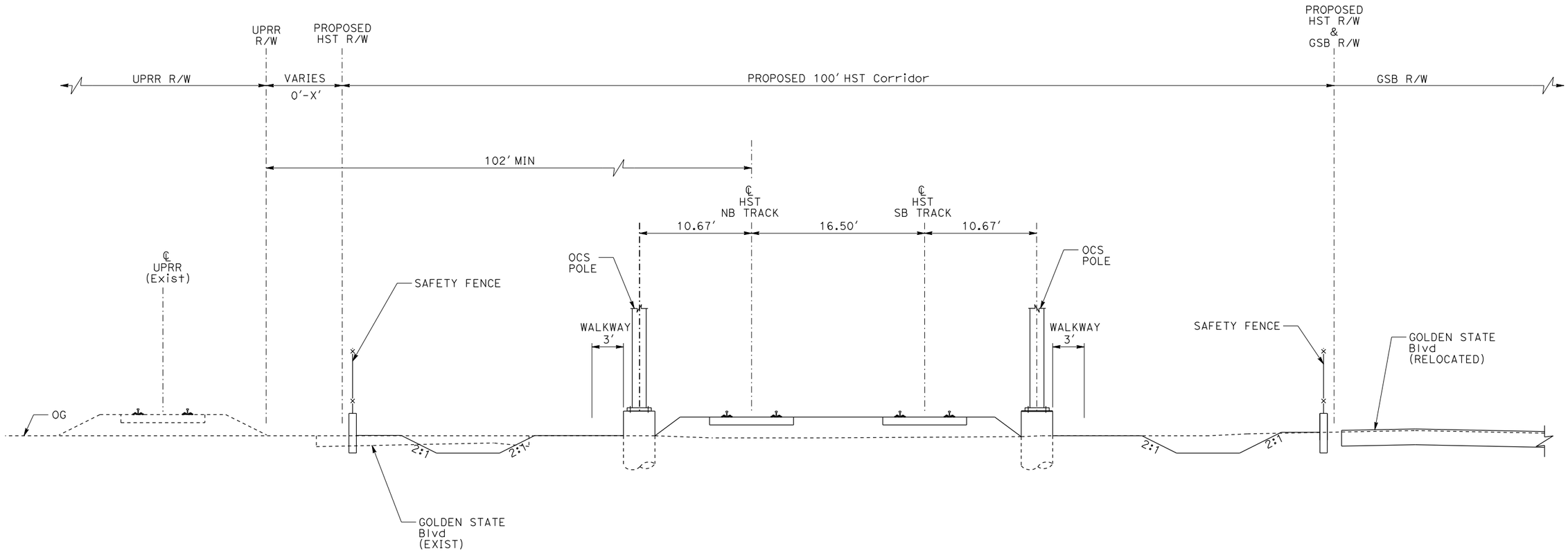
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

TYPICAL SECTION
SHEET 12 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3012-A
SCALE NO SCALE
SHEET NO.

DATE PLOTTED => 21-JUL-2011
TIME PLOTTED => 12:47

USERNAME => lwebster
DGN FILE => MF-T-3012-A1-EIR.dgn



AG6 - DOUBLE TRACK BETWEEN UPRR AND GOLDEN STATE BOULEVARD

NOTE:

POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET 15% DESIGN SUBMITTAL

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

TYPICAL SECTION
SHEET 13 OF 17

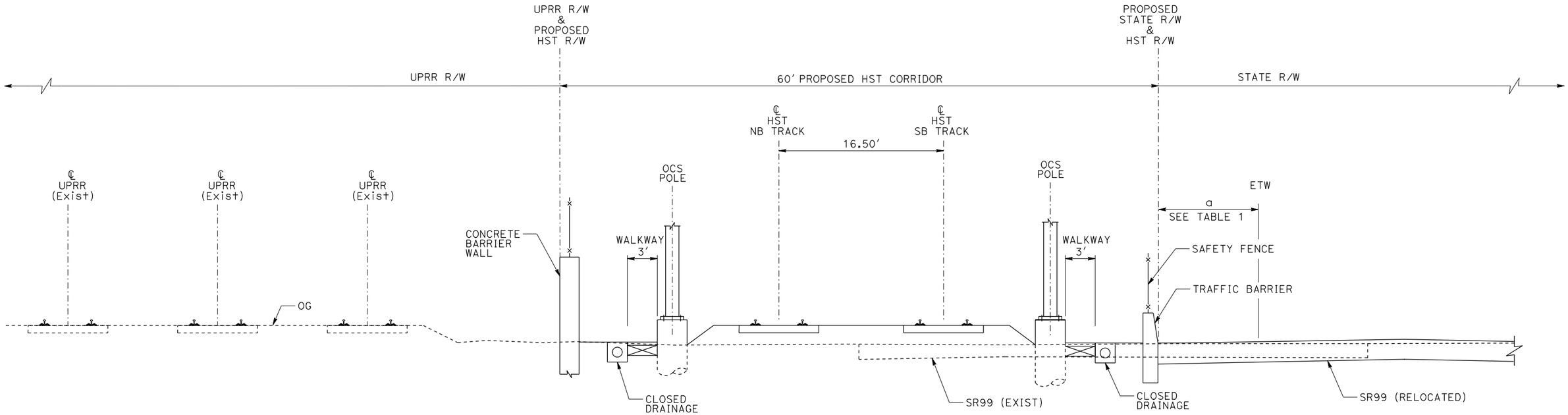
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DRAWING NO. T3013-A
SCALE NO SCALE
SHEET NO.

DATE PLOTTED => 21-JUL-2011
TIME PLOTTED => 12:49

USERNAME => lwebster
DGN FILE => MF-T-3013-A1-EIR.dgn

TABLE 1

a > 30'	NO TRAFFIC BARRIER
4' < a < 30'	TRAFFIC BARRIER



AG7 - DOUBLE TRACK BETWEEN UPRR AND STATE ROUTE 99

NOTE:

POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET 15% DESIGN SUBMITTAL

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

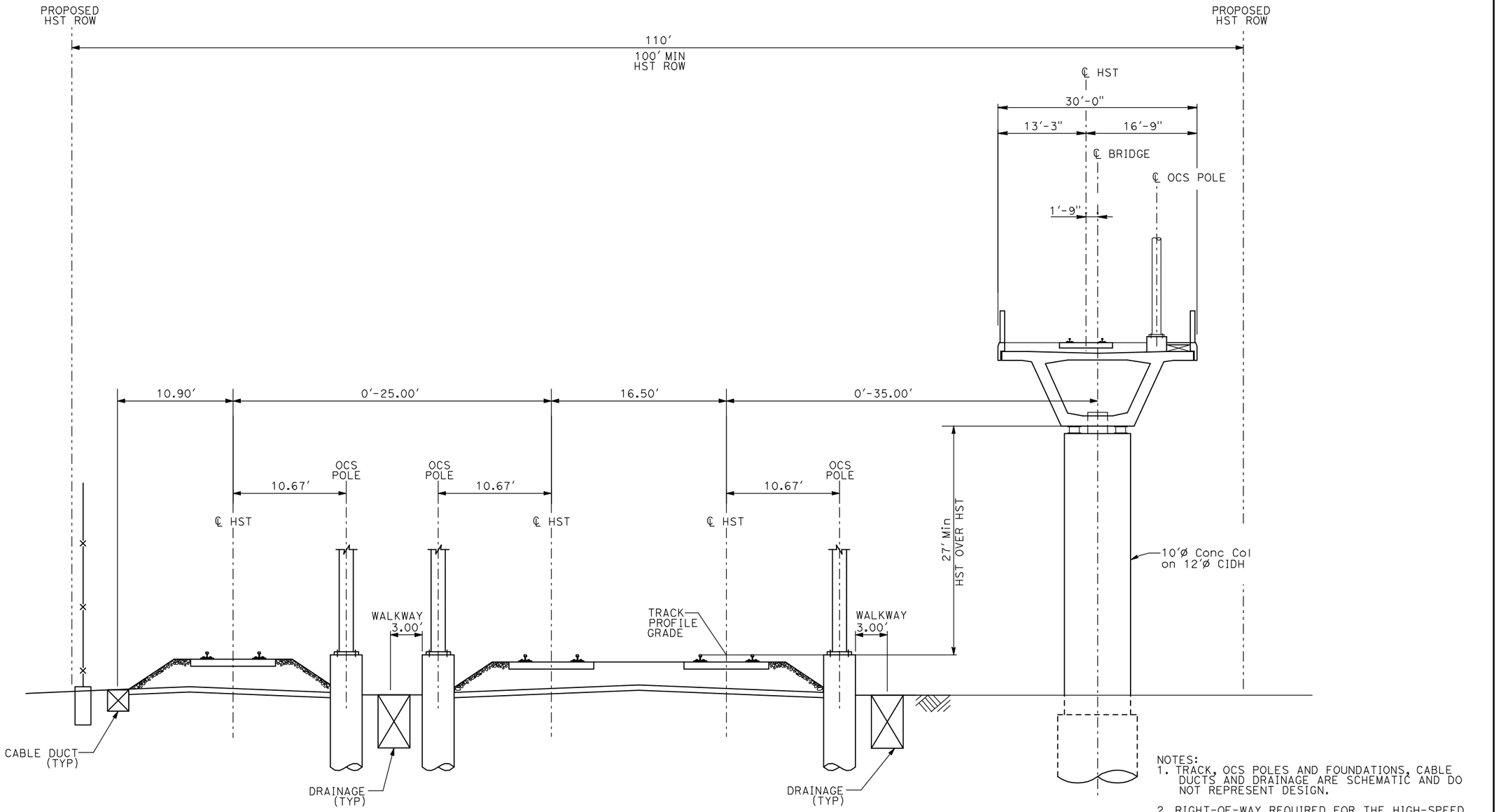
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

TYPICAL SECTION
SHEET 14 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3014-A
SCALE NO SCALE
SHEET NO.

DATE PLOTTED => 21-JUL-2011
TIME PLOTTED => 12:56

USERNAME => lwebster
DGN FILE => MF-T-3014-A1-EIR.dgn



WYE1 - WYE CONNECTION GRADE SEPERATED

NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: C. VALADAO
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Sacramento, CA 95811

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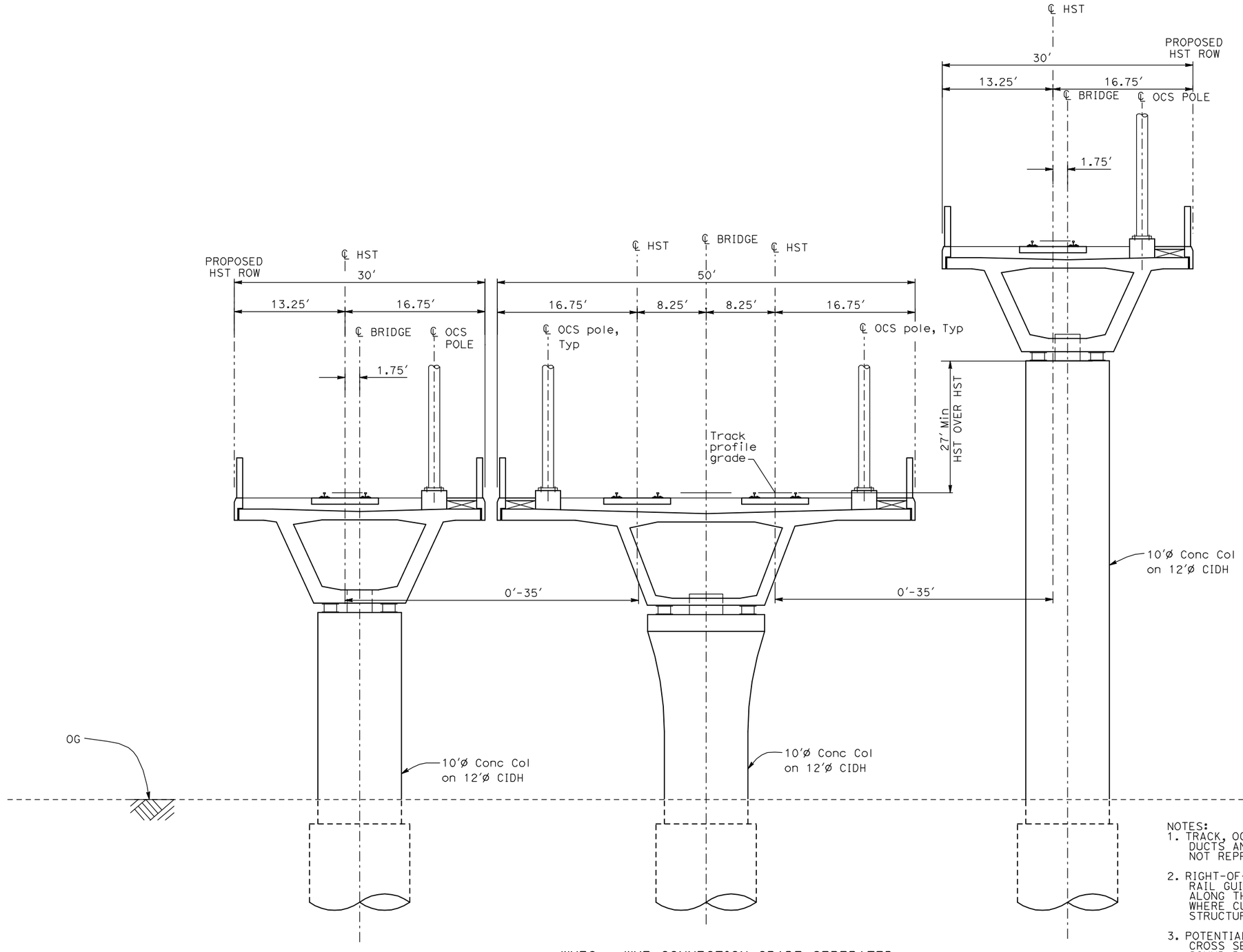
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 15 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3015-A
SCALE NO SCALE
SHEET NO. OF ###

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ShieldsA



WYE2 - WYE CONNECTION GRADE SEPERATED

NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: C. VALADAO
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL
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CH2MHILL

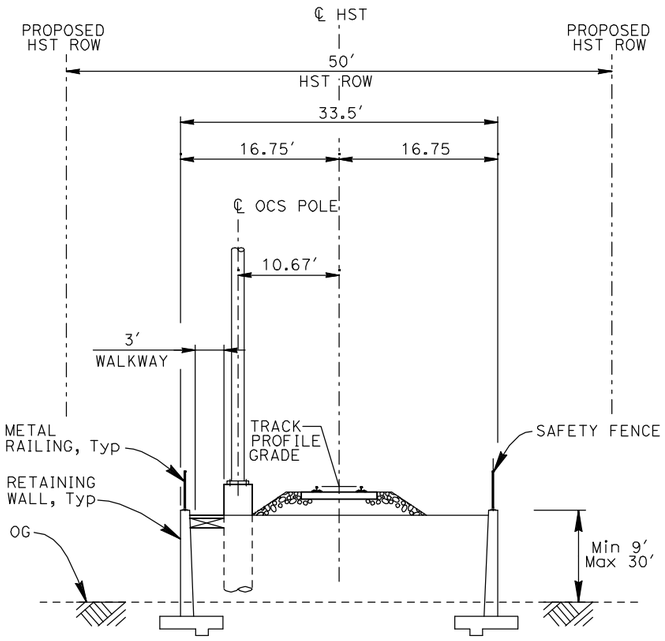
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

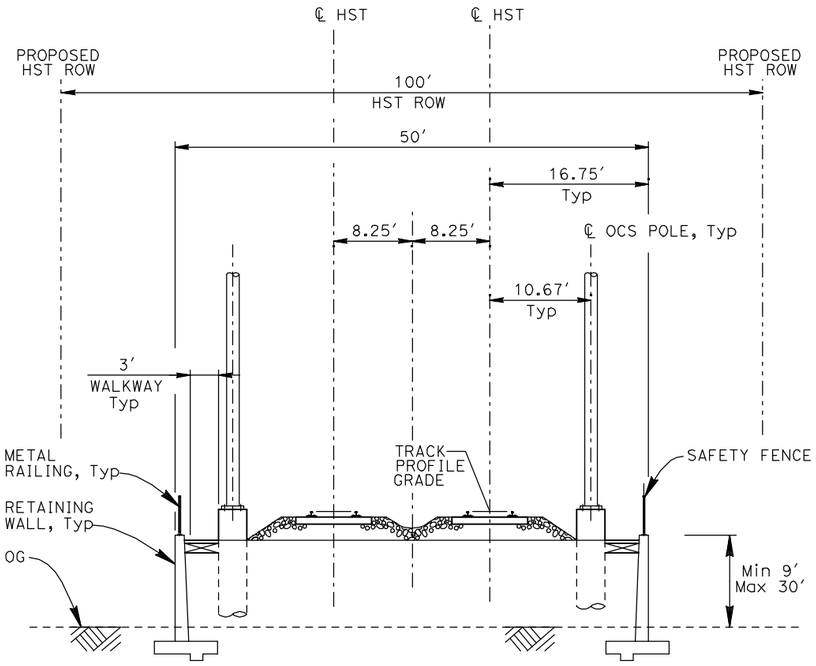
TYPICAL SECTIONS
SHEET 16 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3016-A
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ShieldsA



RF1 - SINGLE TRACK RETAINED FILL



RF2 - DOUBLE TRACK RETAINED FILL

NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: C. VALADAO
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

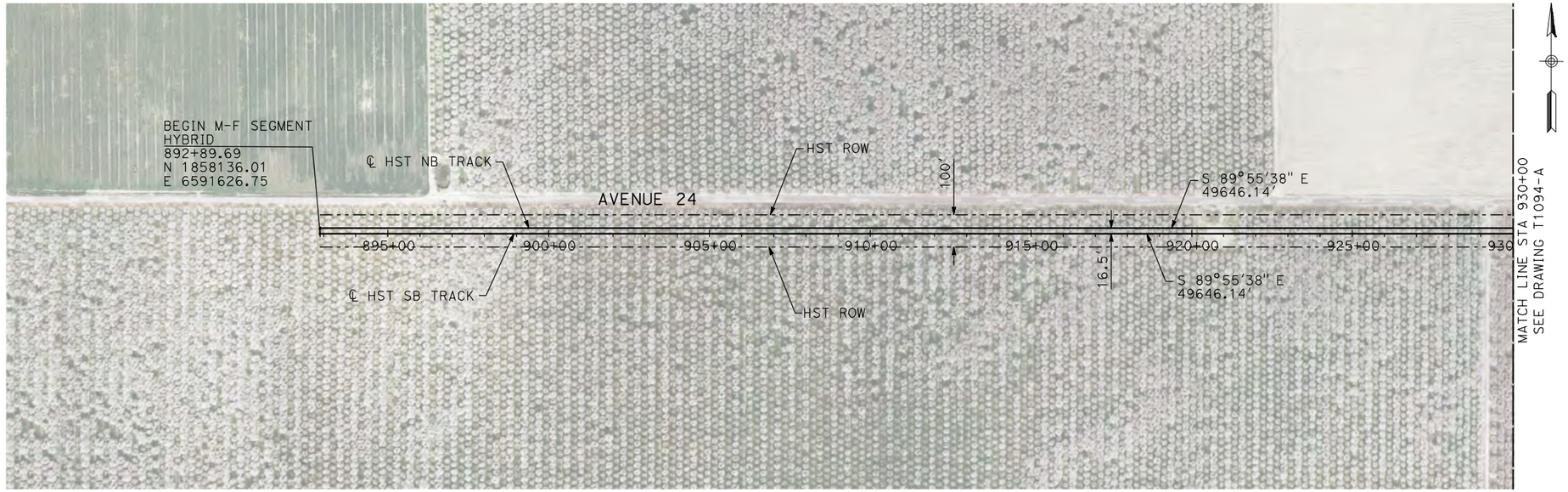
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 17 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3017-A
SCALE NO SCALE
SHEET NO. OF ###

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NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

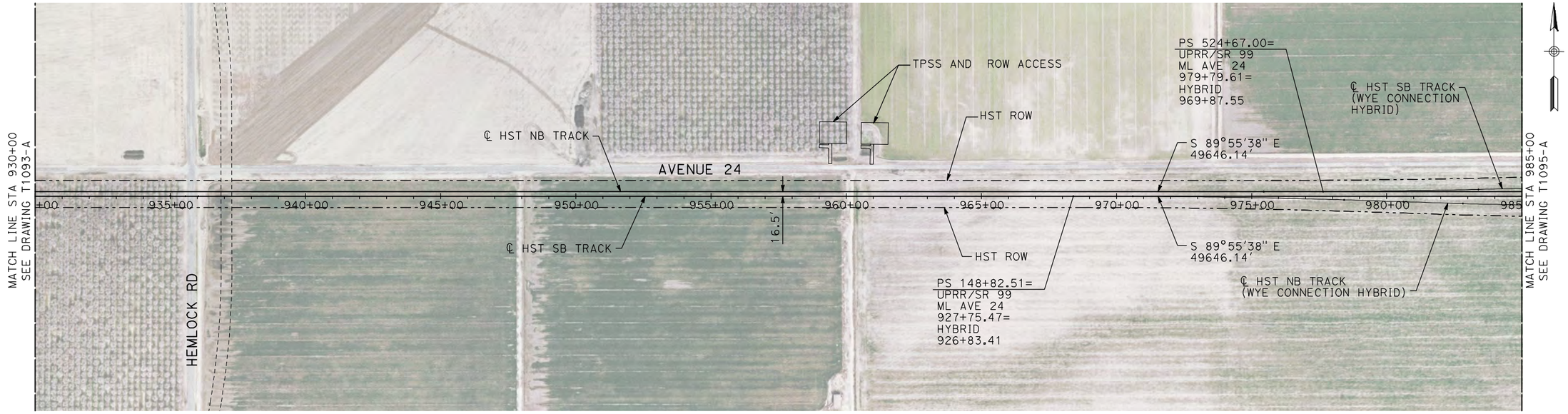
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 892+89.69 TO STA 930+00

CONTRACT NO. HSR06-007
DRAWING NO. T1093-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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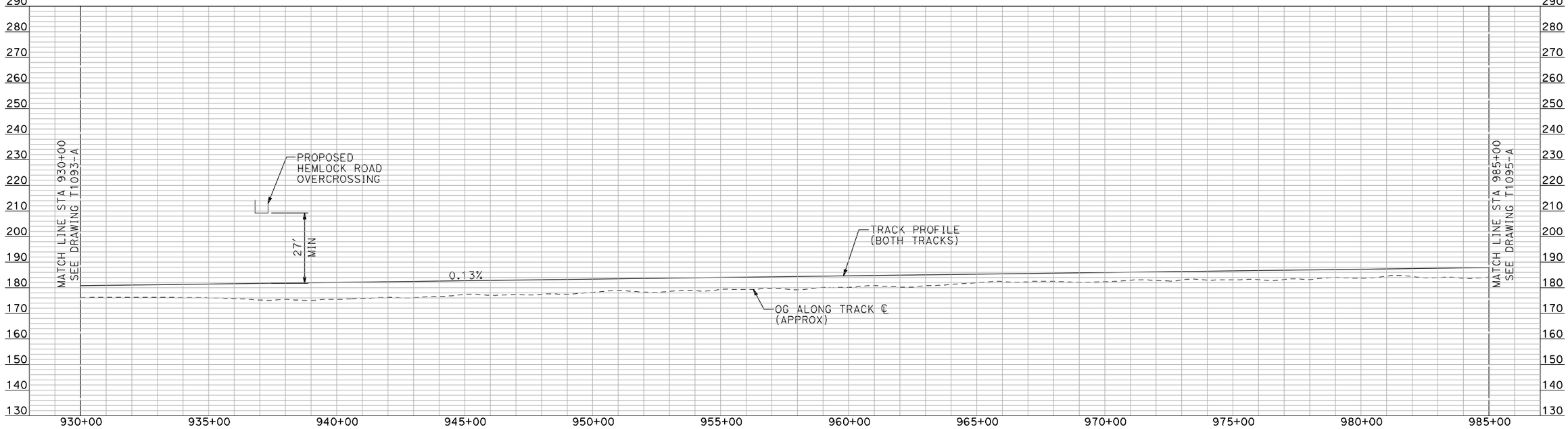


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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

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CH2MHILL

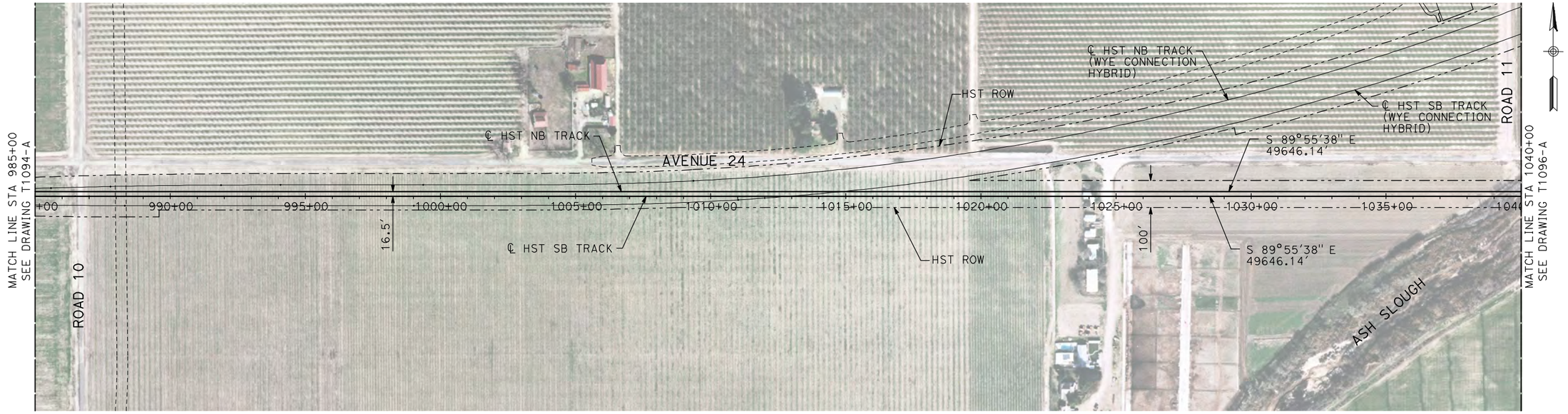
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID

PLAN AND PROFILE
STA 930+00 TO STA 985+00

CONTRACT NO. HSR06-007
DRAWING NO. T1094-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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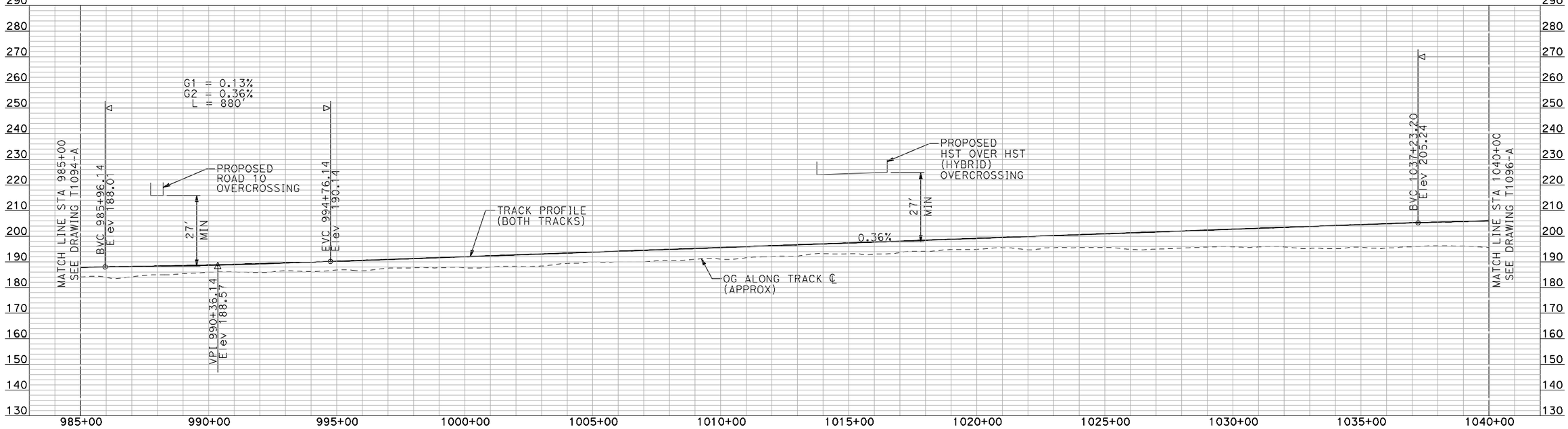


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PLAN

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

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2020 L Street, Suite 300
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CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

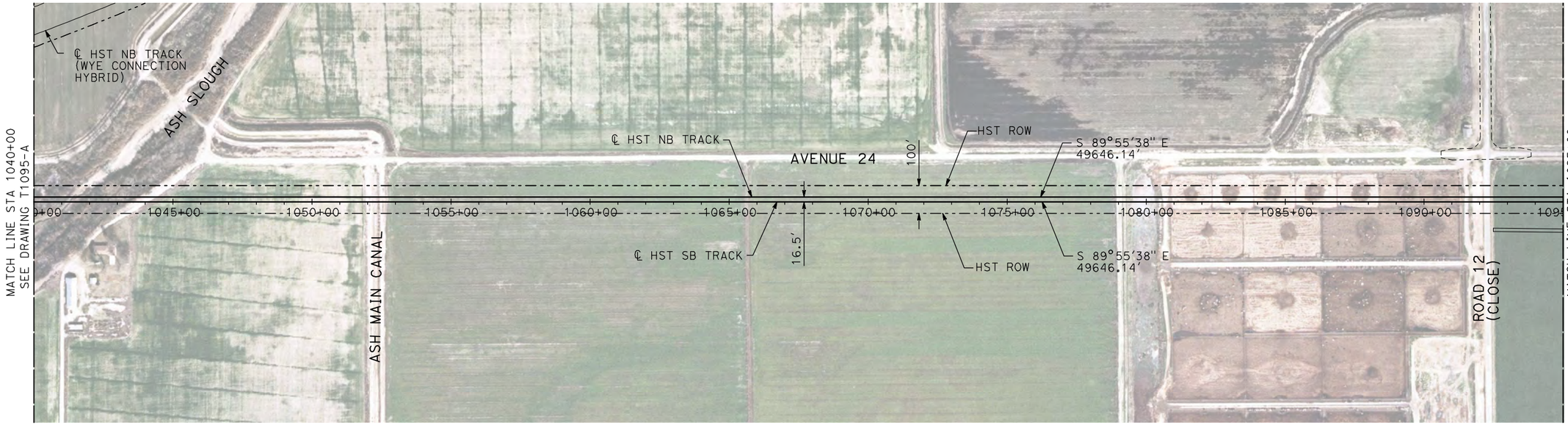
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 985+00 TO STA 1040+00

CONTRACT NO. HSR06-007
DRAWING NO. T1095-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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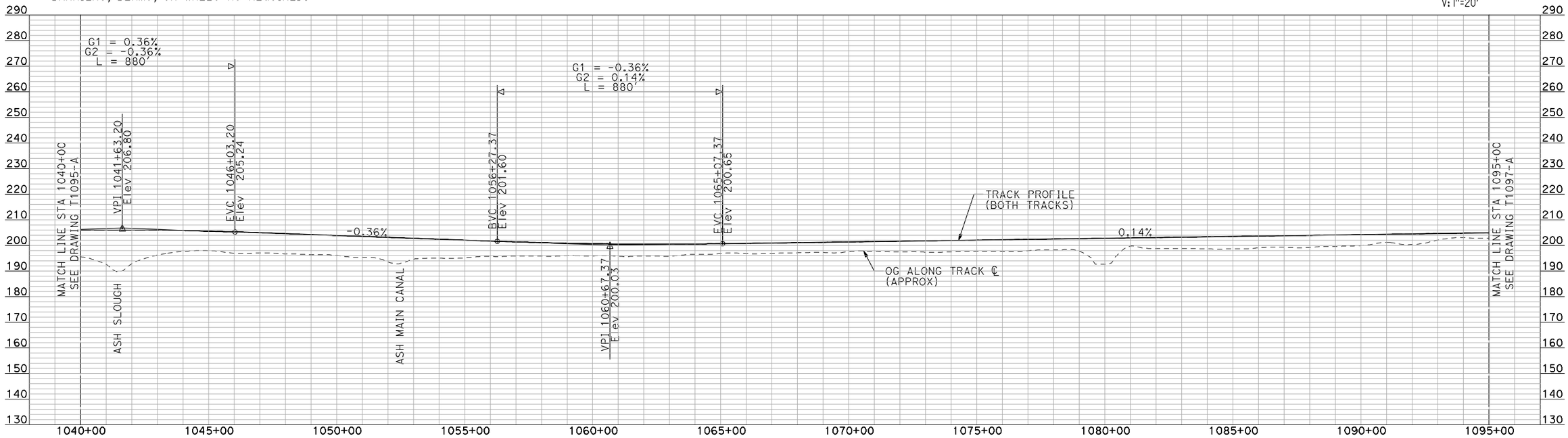


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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

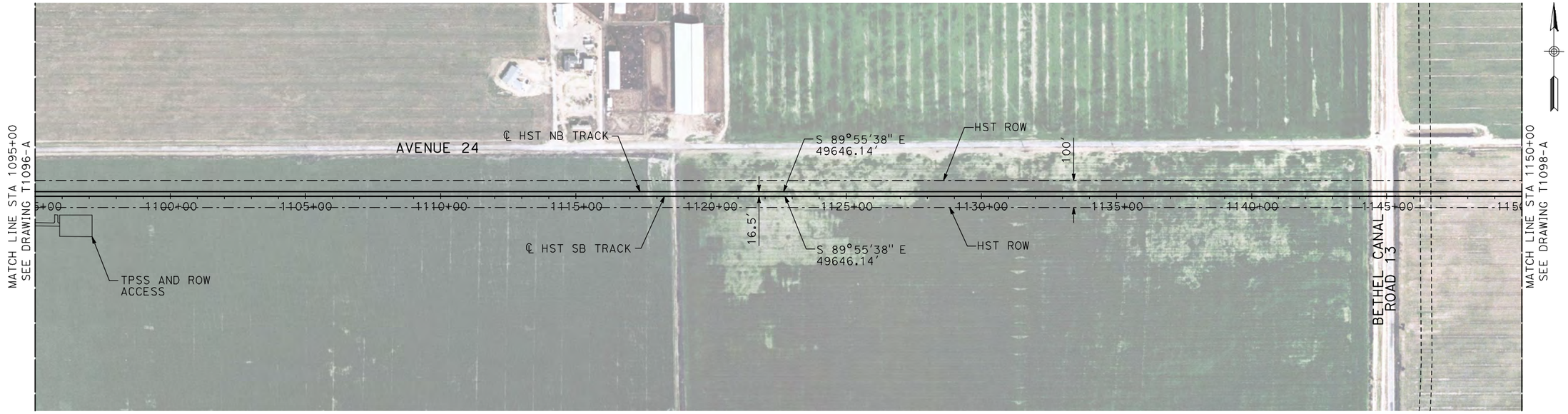
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 1040+00 TO STA 1095+00

CONTRACT NO. HSR06-007
DRAWING NO. T1096-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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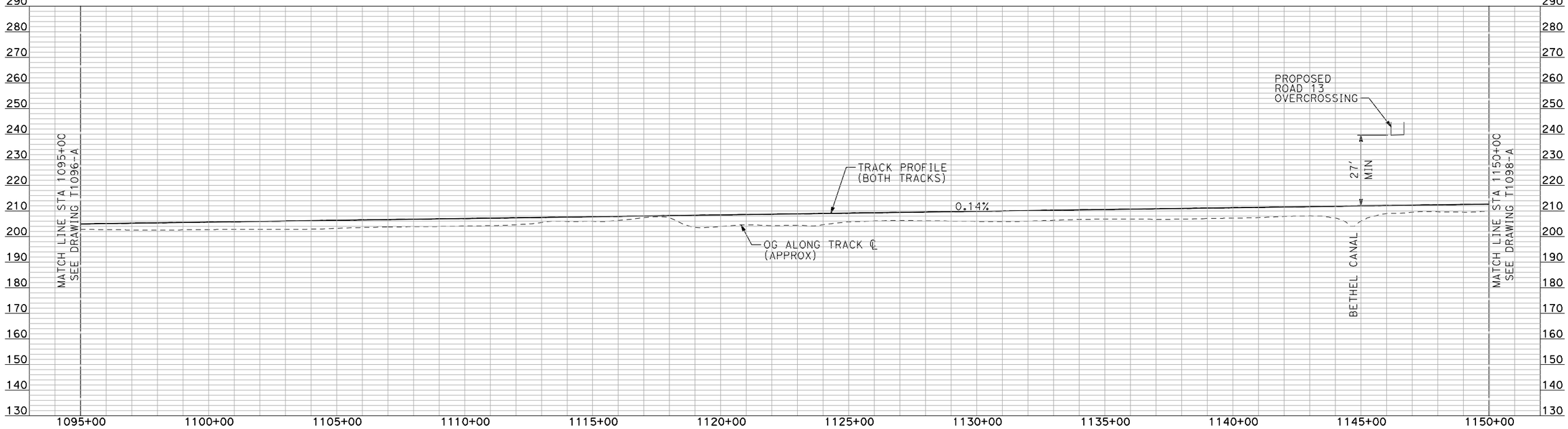


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PLAN

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

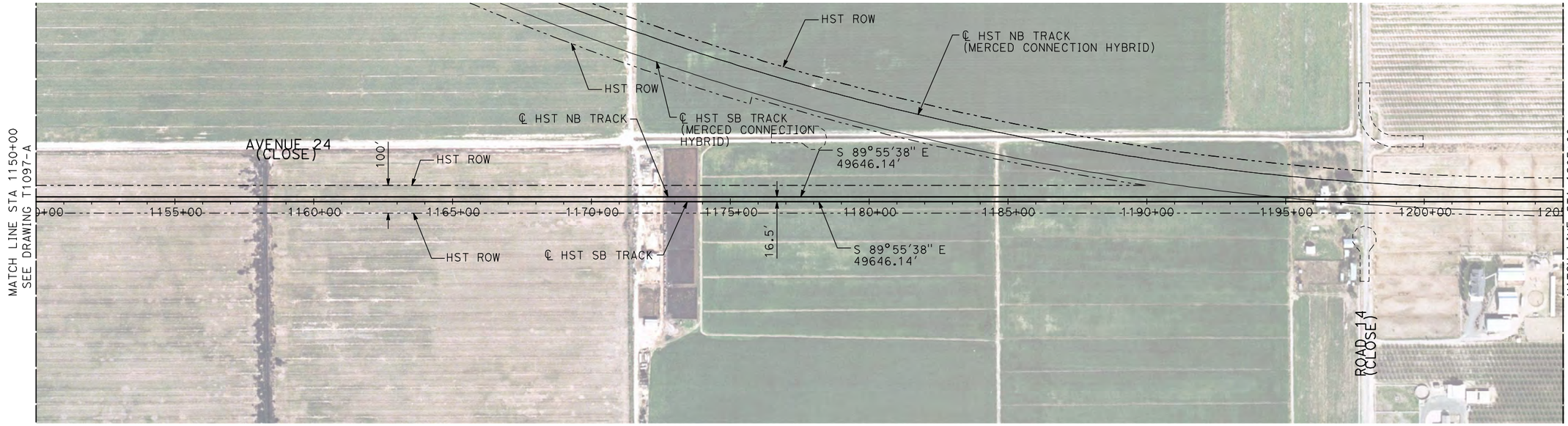
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 1095+00 TO STA 1150+00

CONTRACT NO. HSR06-007
DRAWING NO. T1097-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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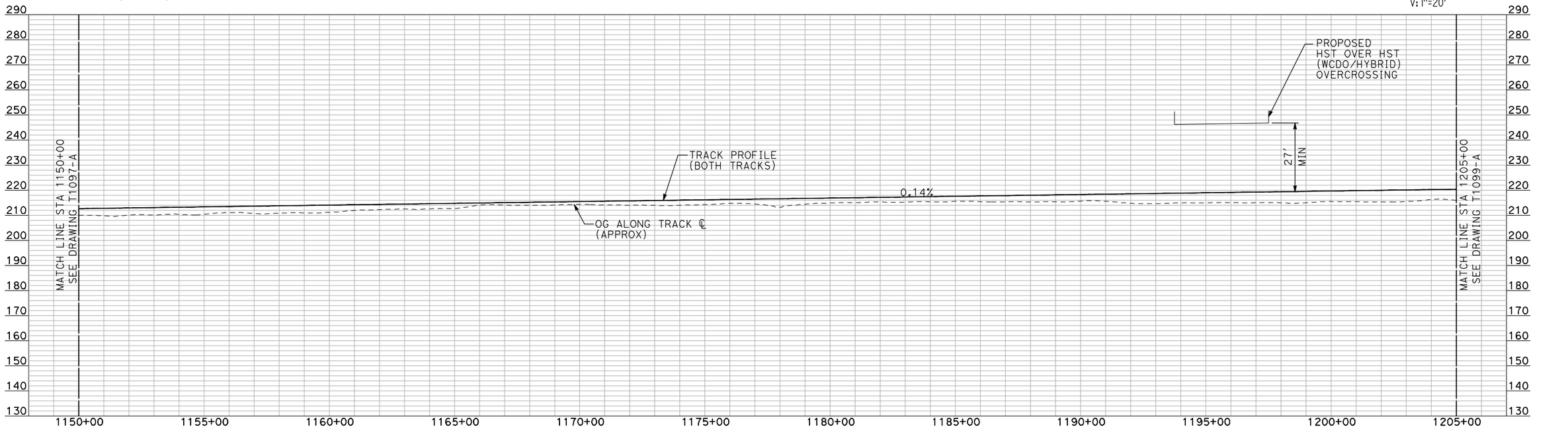


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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

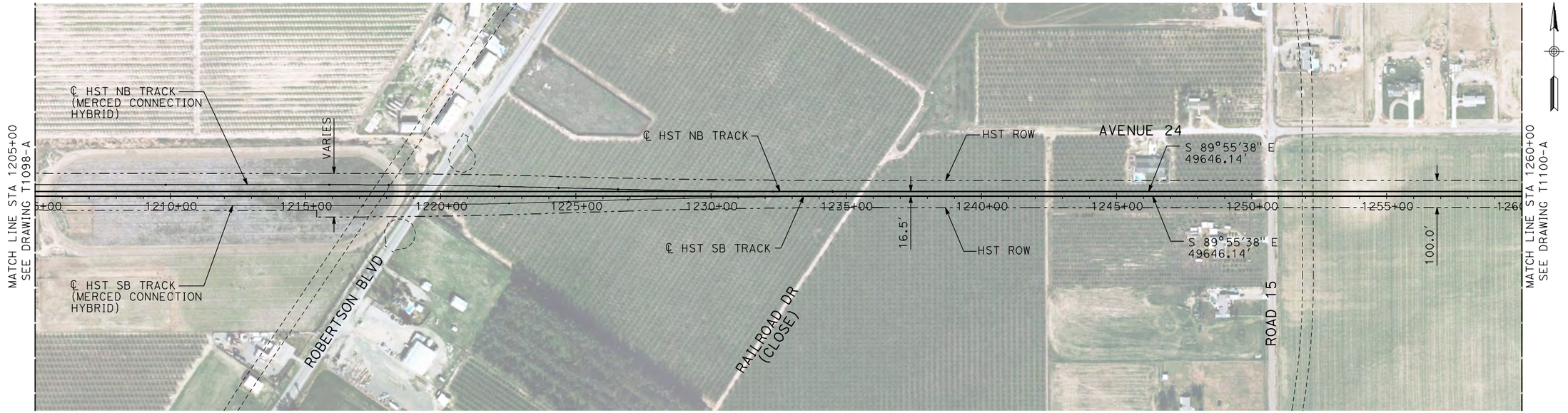
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 1150+00 TO STA 1205+00

CONTRACT NO. HSR06-007
DRAWING NO. T1098-A
SCALE AS SHOWN
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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

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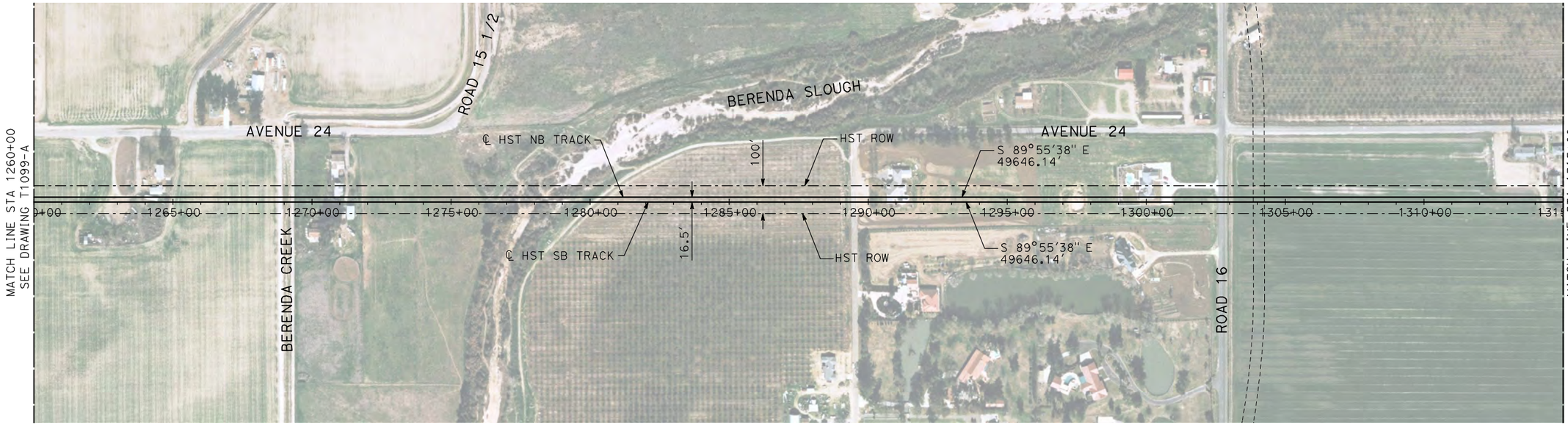
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID

PLAN AND PROFILE
STA 1205+00 TO STA 1260+00

CONTRACT NO. HSR06-007
DRAWING NO. T1099-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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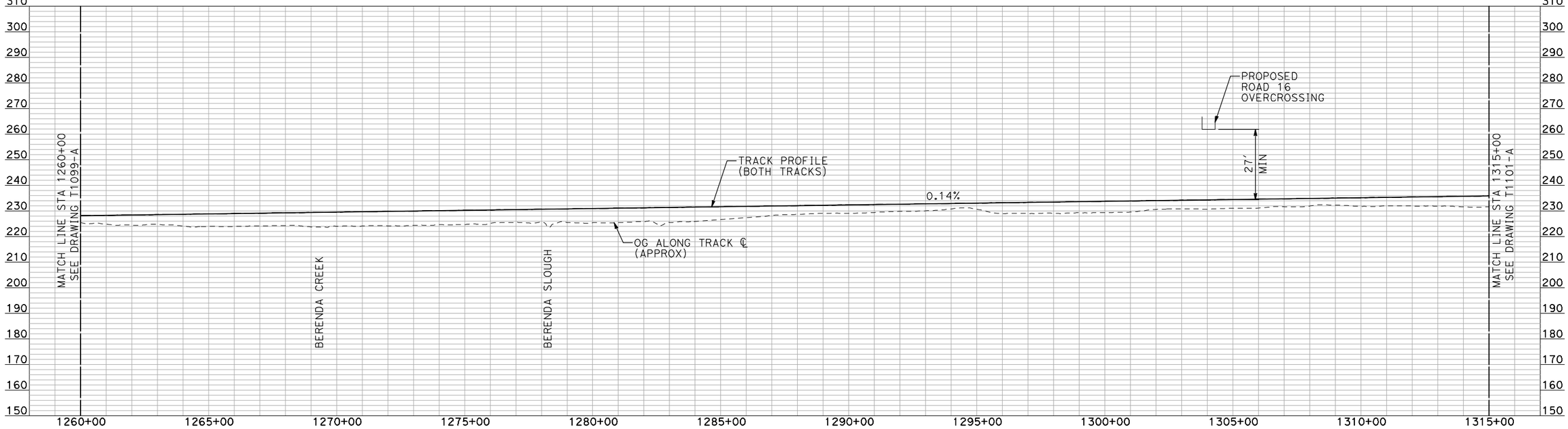


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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
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Technical Services, Inc.
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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

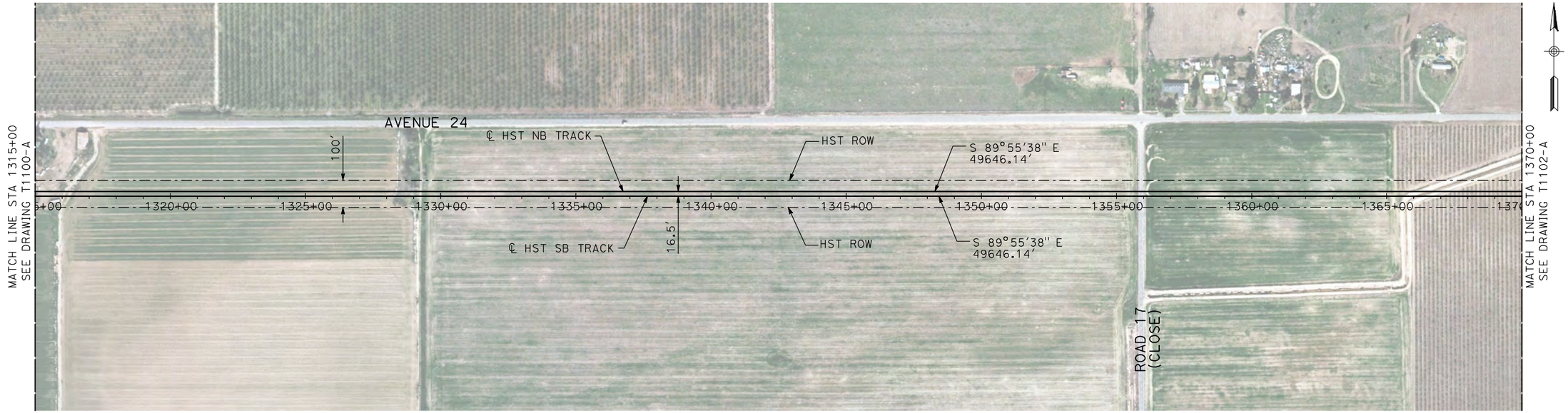
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 1260+00 TO STA 1315+00

CONTRACT NO. HSR06-007
DRAWING NO. T1100-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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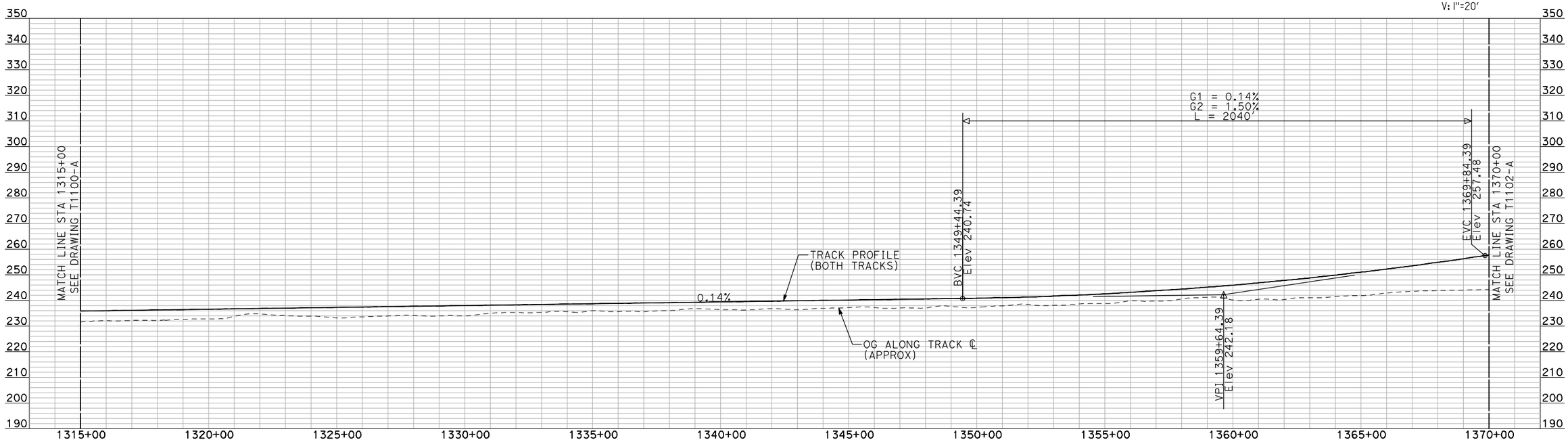


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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
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Technical Services, Inc.
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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

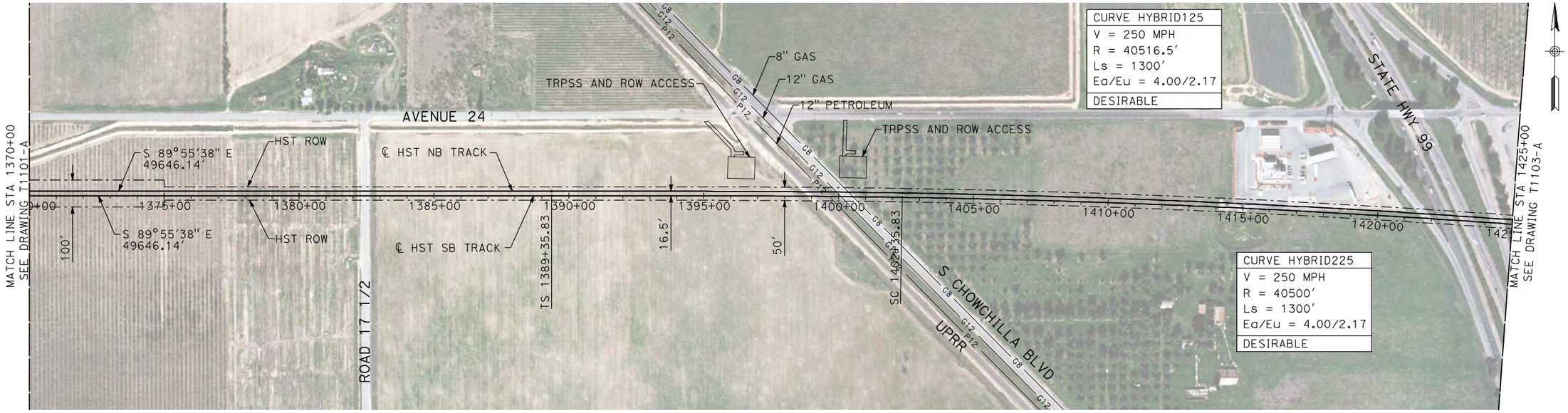
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 1315+00 TO STA 1370+00

CONTRACT NO. HSR06-007
DRAWING NO. T1101-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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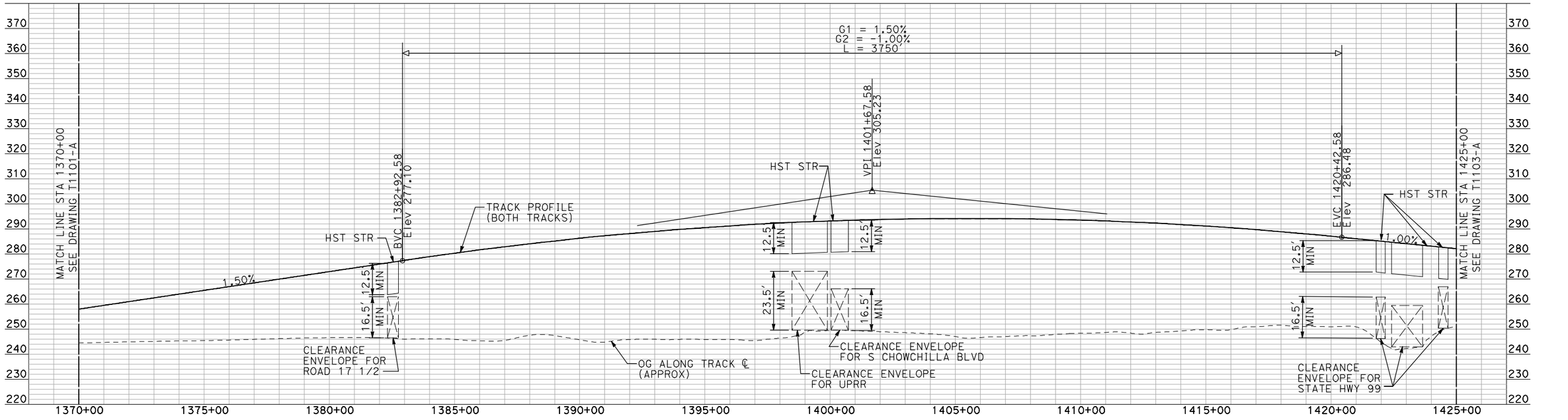


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PLAN

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

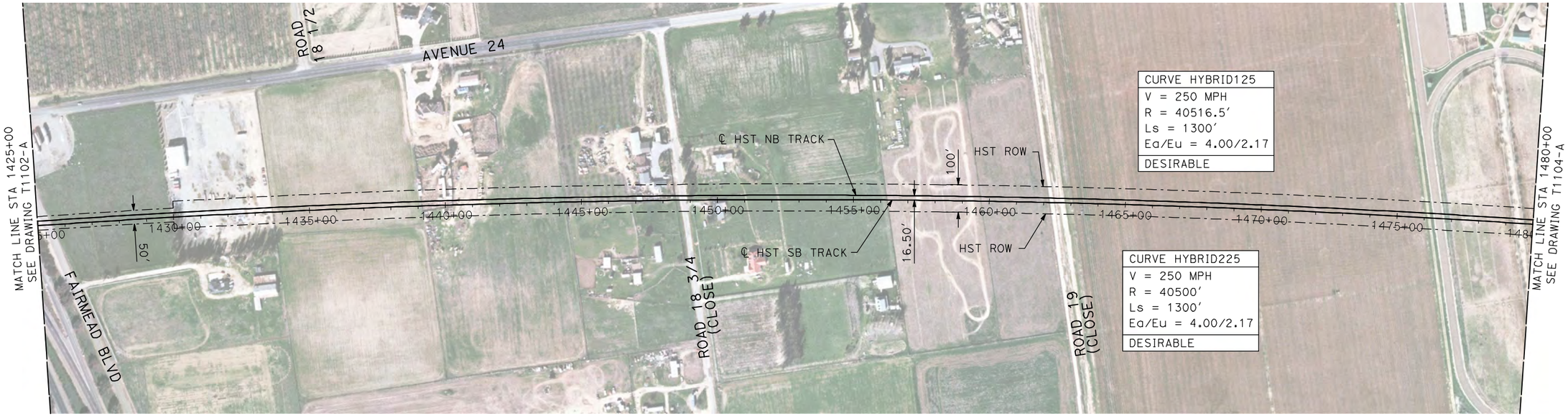
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 1370+00 TO STA 1425+00

CONTRACT NO. HSR06-007
DRAWING NO. T1102-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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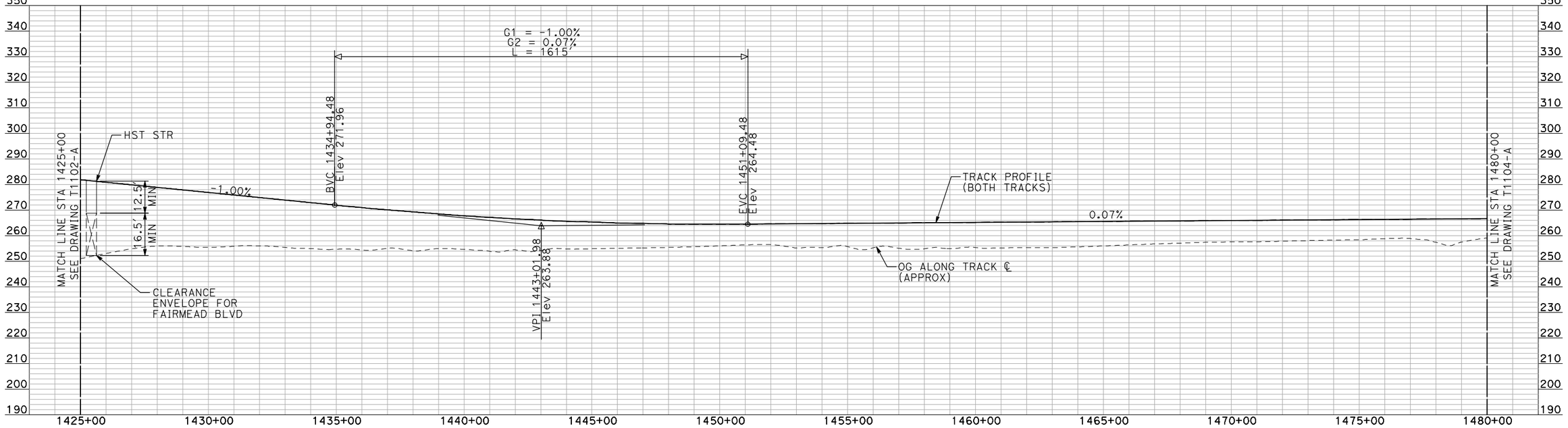


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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
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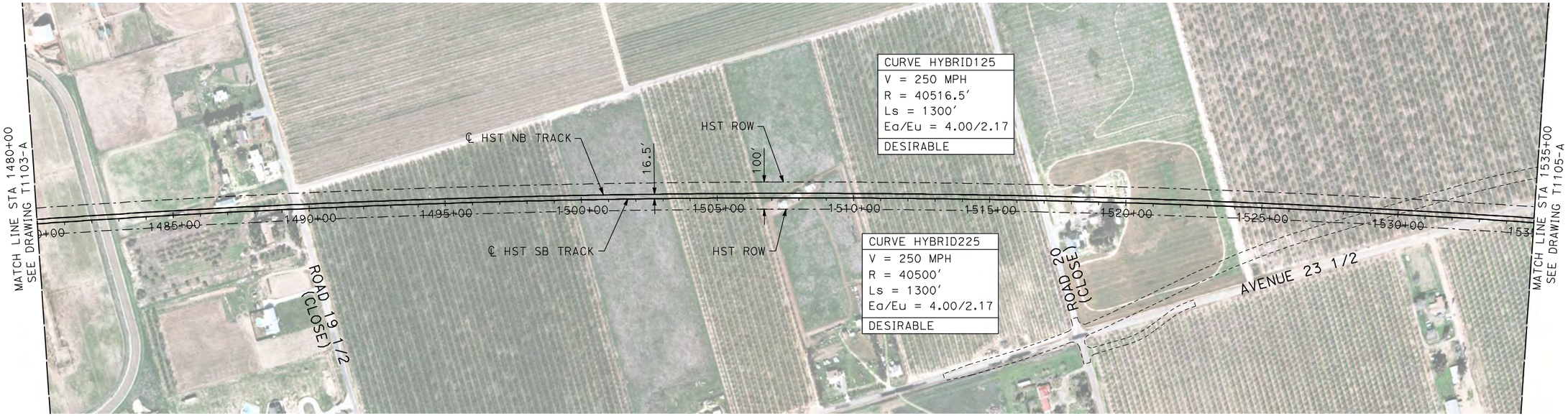
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID

PLAN AND PROFILE
STA 1425+00 TO STA 1480+00

CONTRACT NO. HSR06-007
DRAWING NO. T1103-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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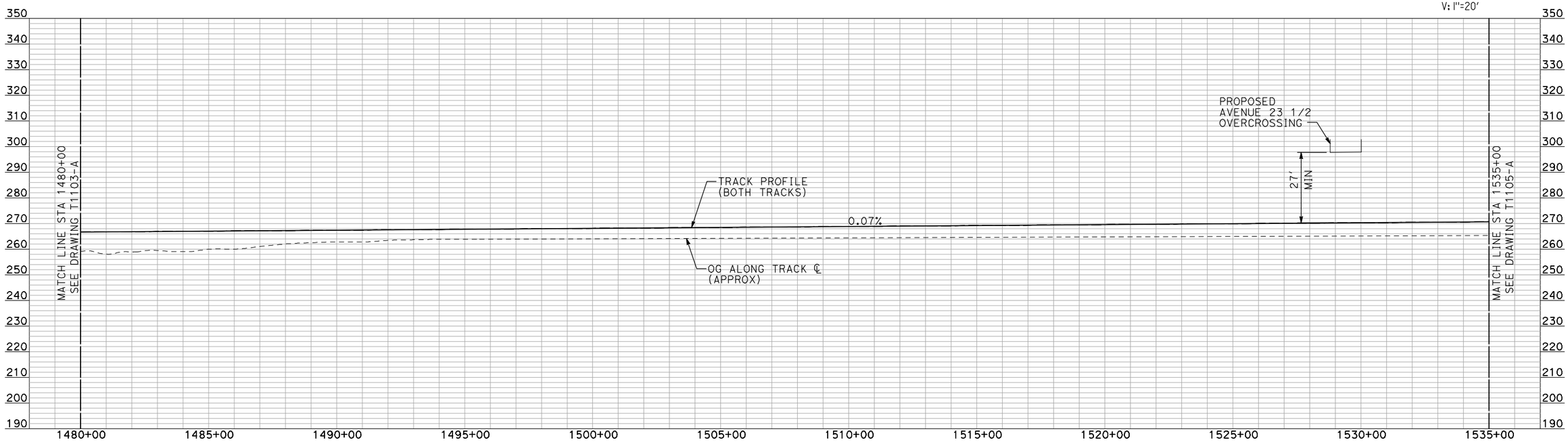


NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

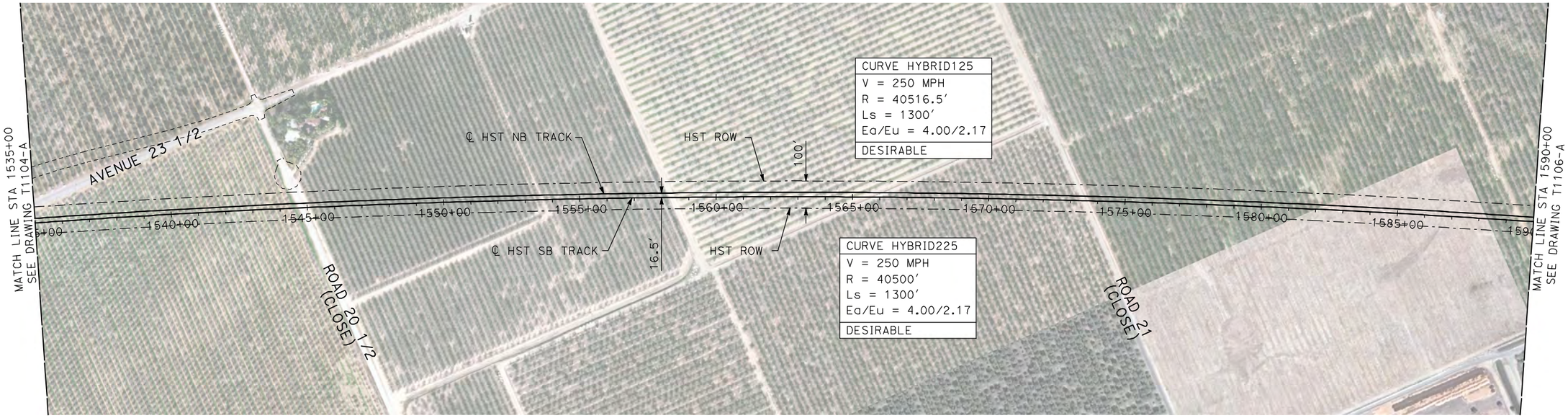
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 1480+00 TO STA 1535+00

CONTRACT NO. HSR06-007
DRAWING NO. T1104-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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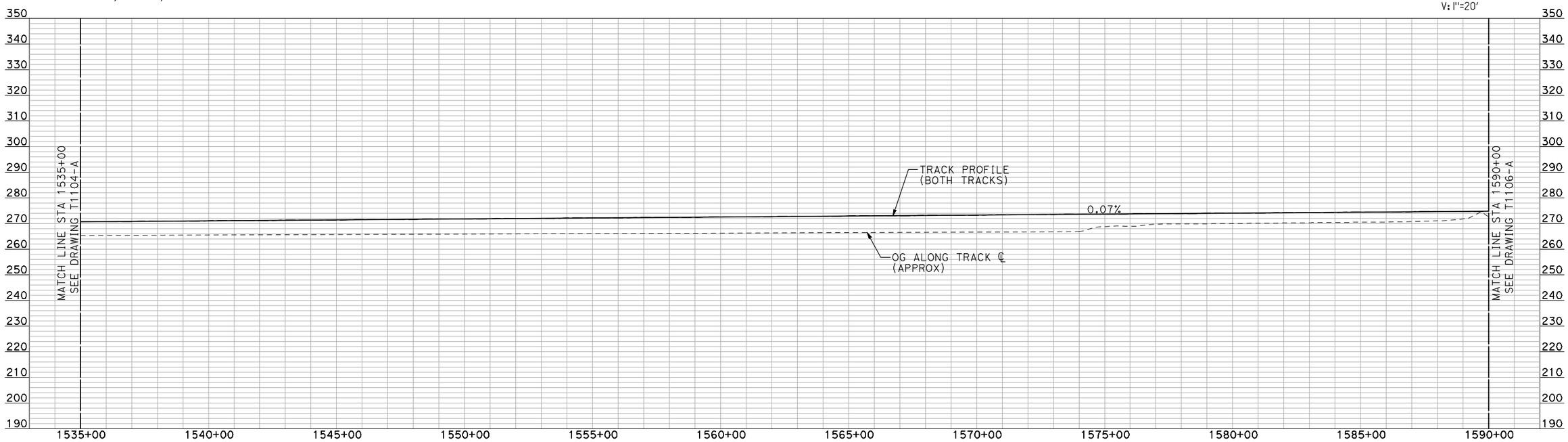


NOTES:
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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL

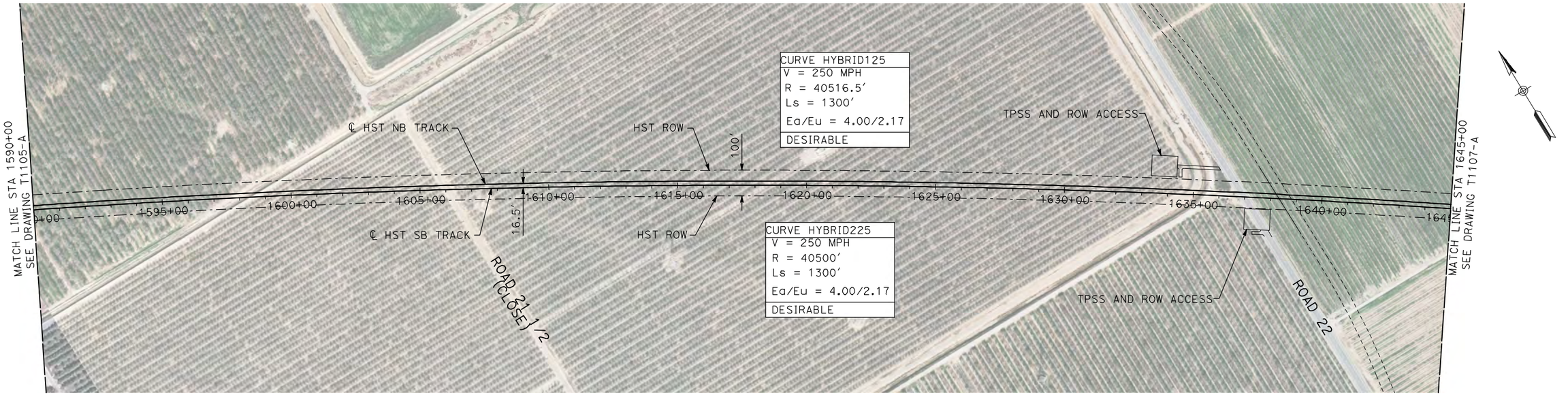
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID

PLAN AND PROFILE
STA 1535+00 TO STA 1590+00

CONTRACT NO. HSR06-007
DRAWING NO. T1105-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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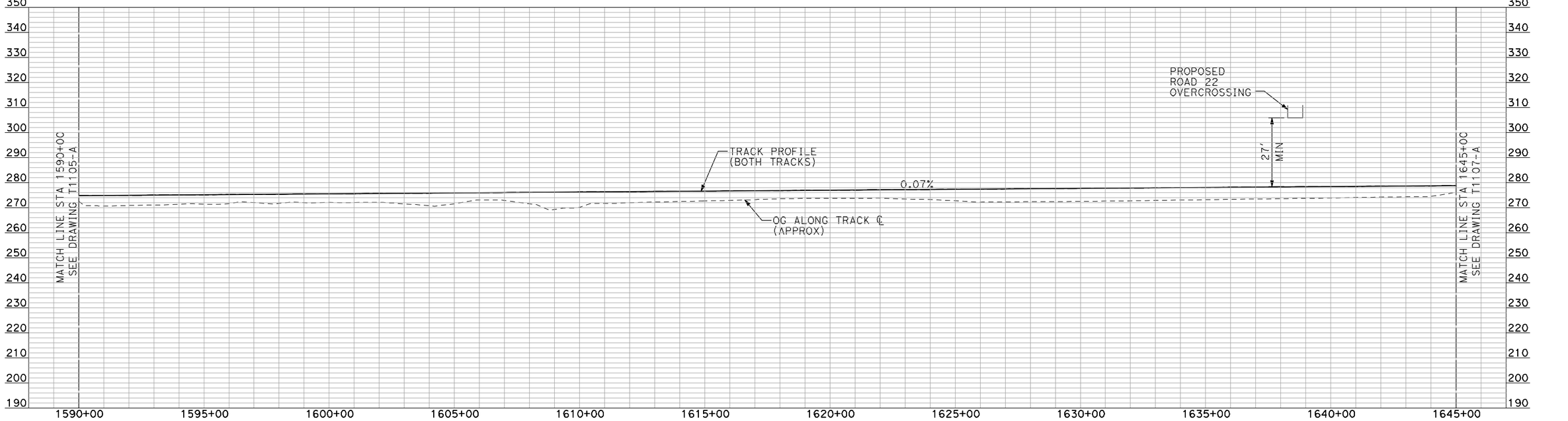


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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

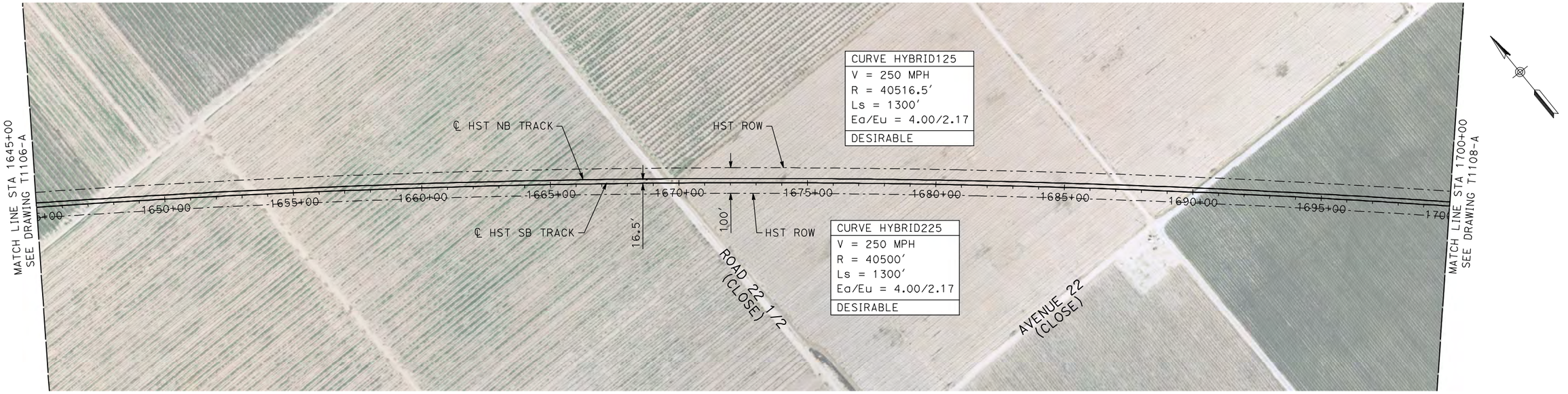
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID

PLAN AND PROFILE
STA 1590+00 TO STA 1645+00

CONTRACT NO. HSR06-007
DRAWING NO. T1106-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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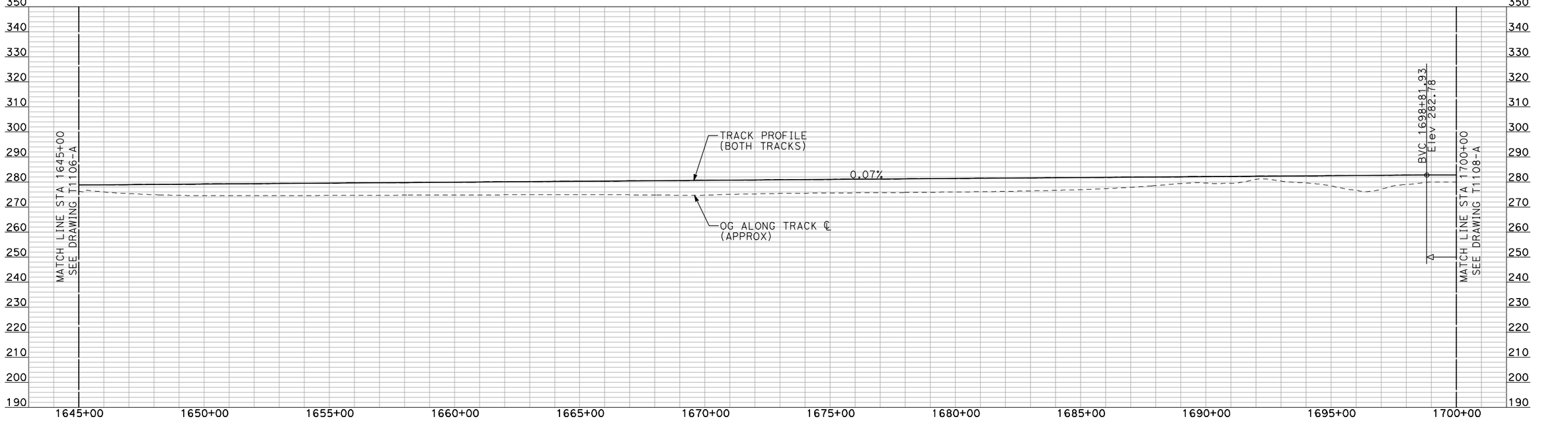


NOTES:
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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 1645+00 TO STA 1700+00

CONTRACT NO. HSR06-007
DRAWING NO. T1107-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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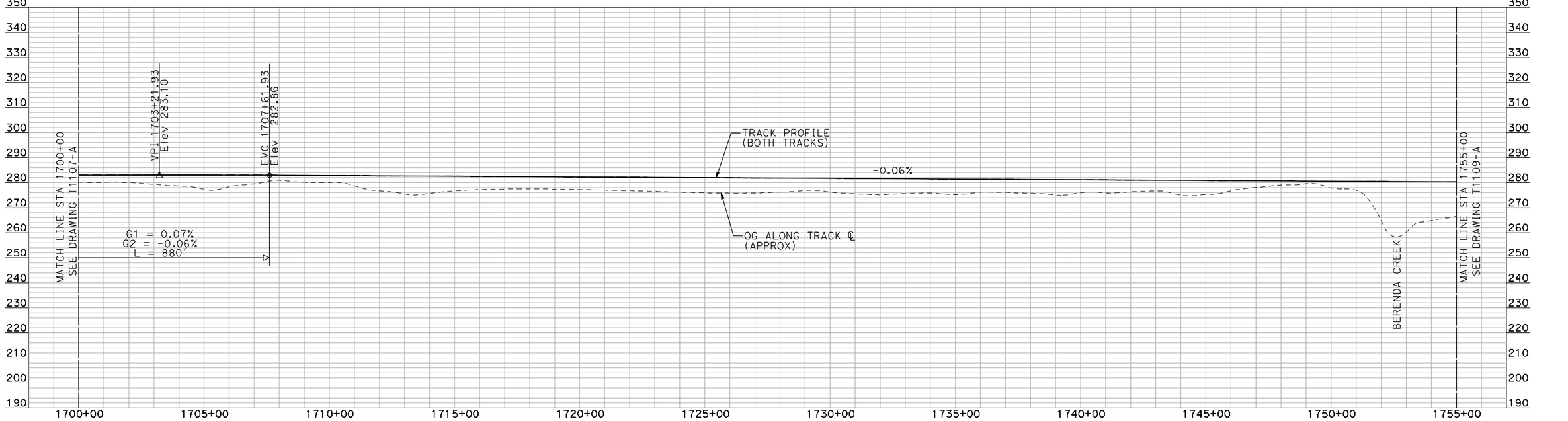


NOTES:
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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

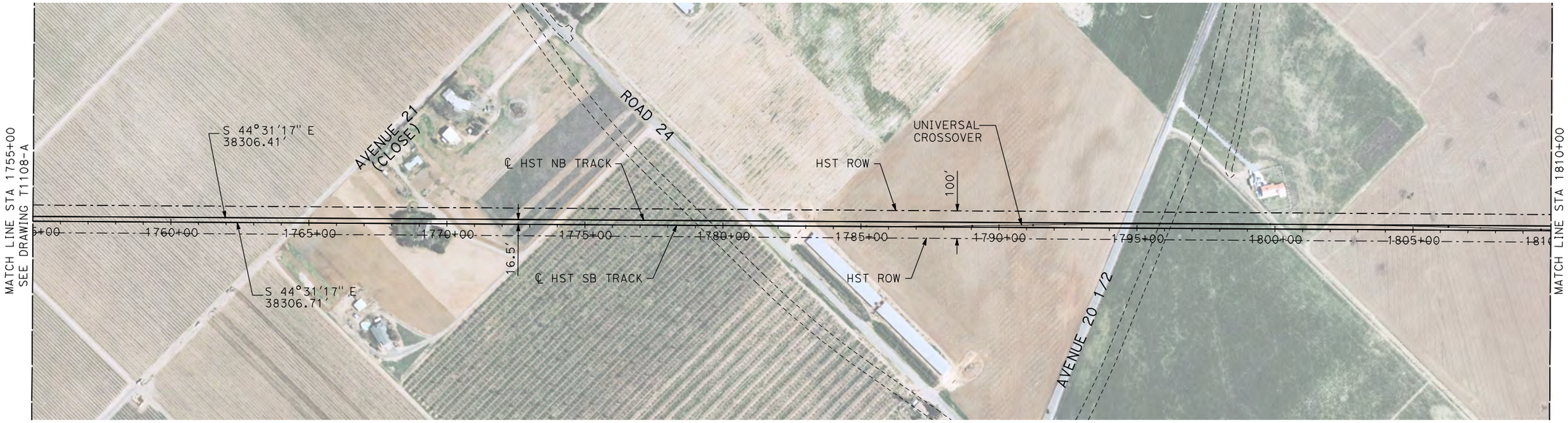
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 1700+00 TO STA 1755+00

CONTRACT NO. HSR06-007
DRAWING NO. T1108-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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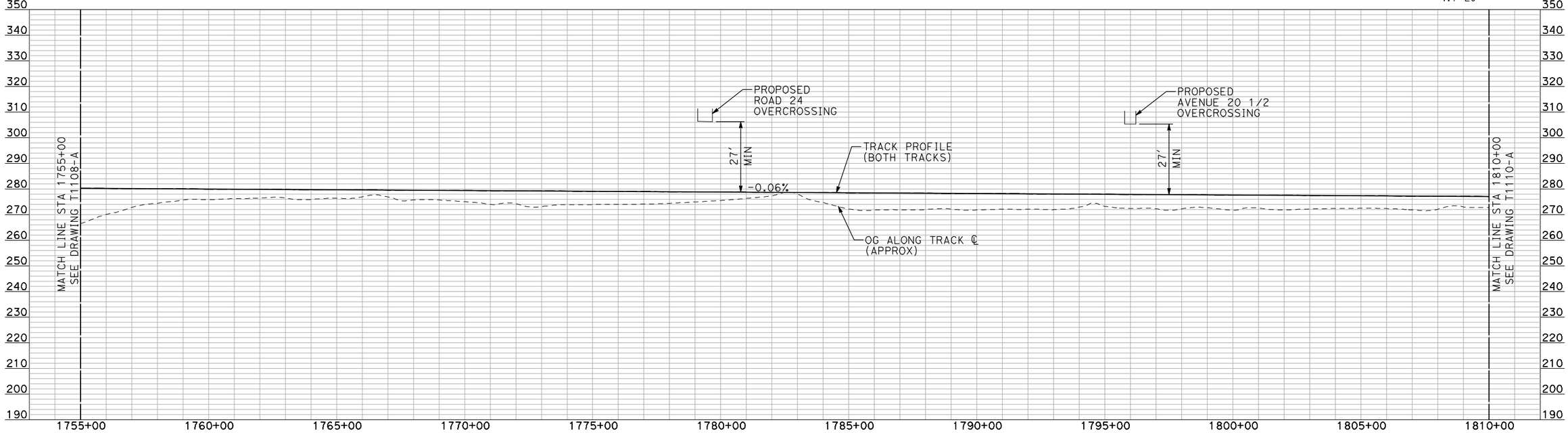


NOTES:
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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
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Sacramento, CA 95811
CH2MHILL

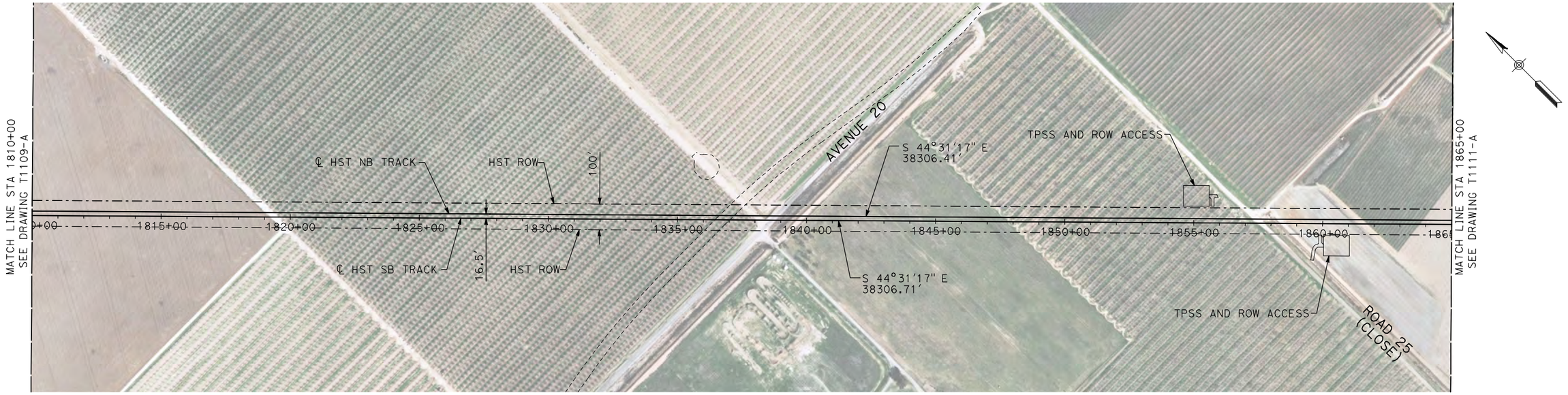
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID

PLAN AND PROFILE
STA 1755+00 TO STA 1810+00

CONTRACT NO. HSR06-007
DRAWING NO. T1109-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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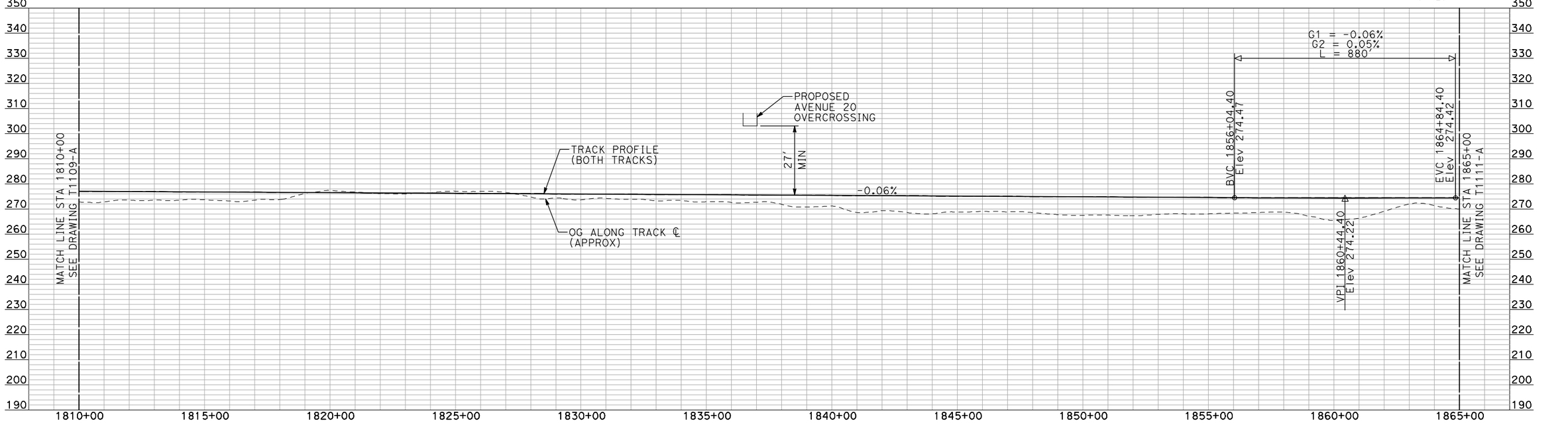


NOTES:
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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

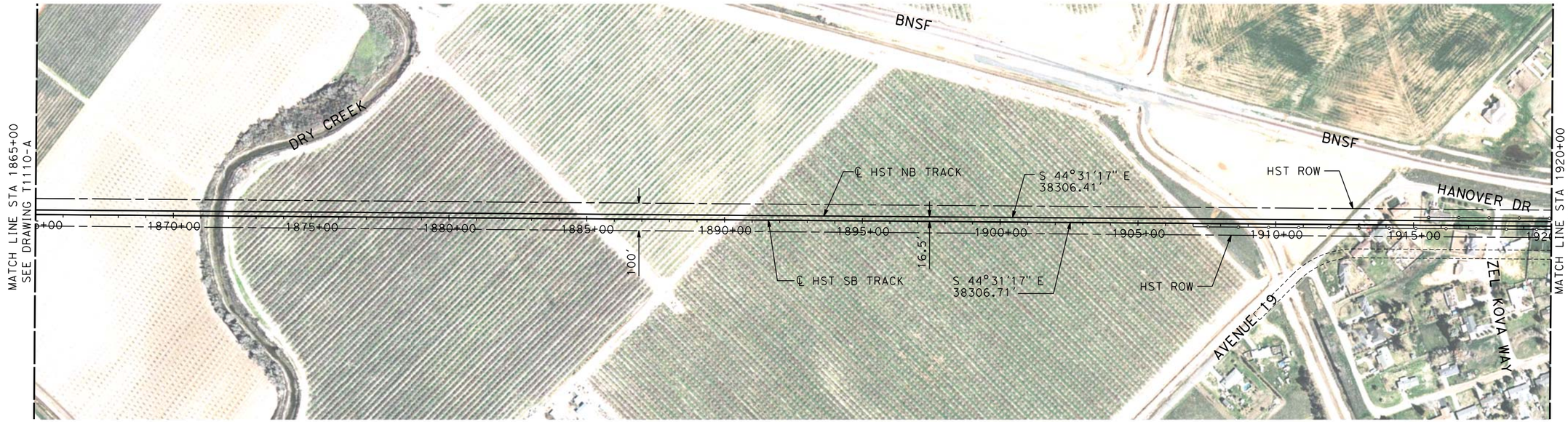
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 1810+00 TO STA 1865+00

CONTRACT NO. HSR06-007
DRAWING NO. T1110-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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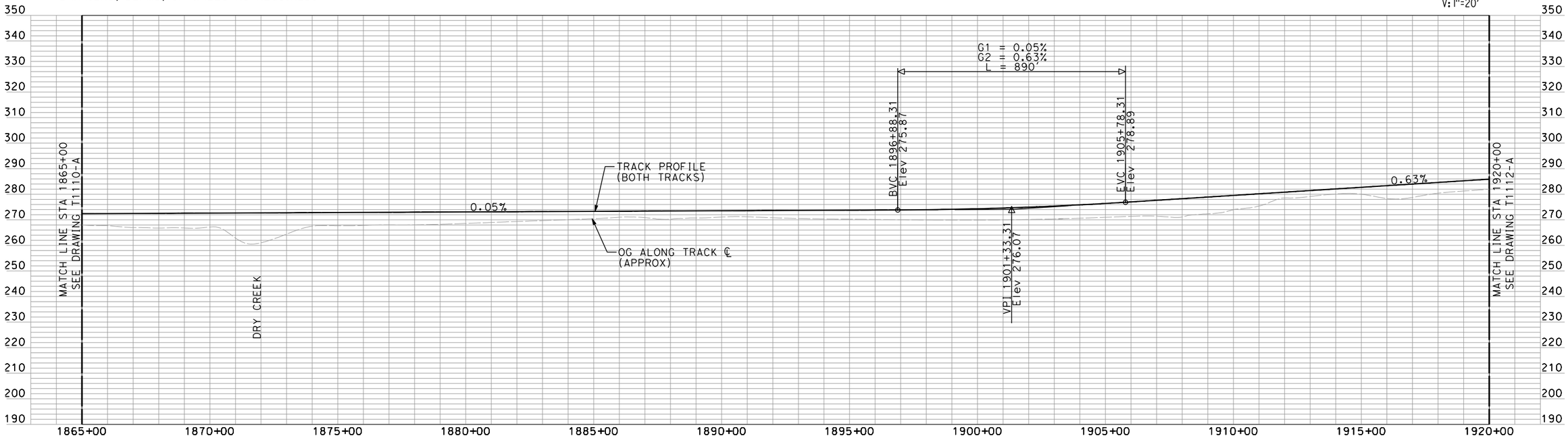


NOTES:
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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	02/21/12				NOISE BARRIER LIMITS

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

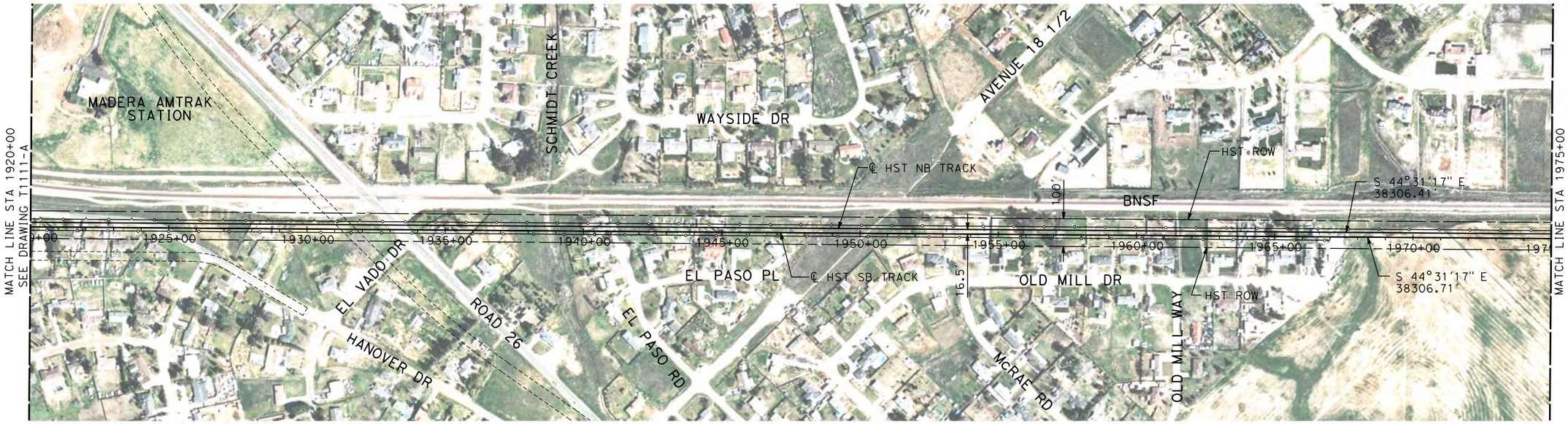
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 1865+00 TO STA 1920+00

CONTRACT NO. HSR06-007
DRAWING NO. T1111-A
SCALE AS SHOWN
SHEET NO. ### OF ###

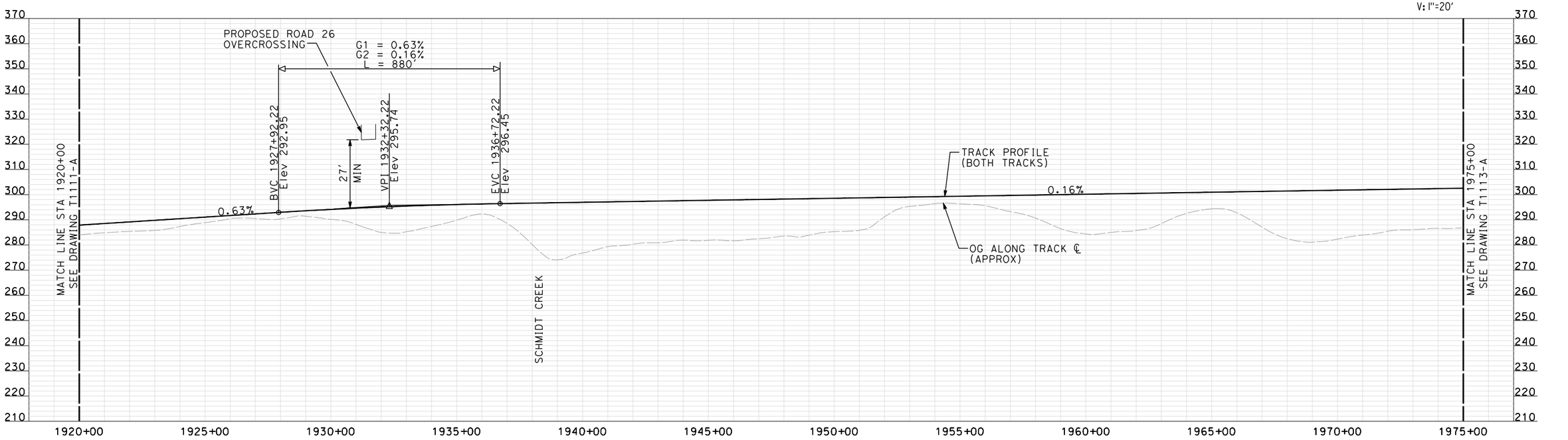
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shieldsa



PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
					AMTRAK STATION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 02/17/2012

RECORD SET
15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

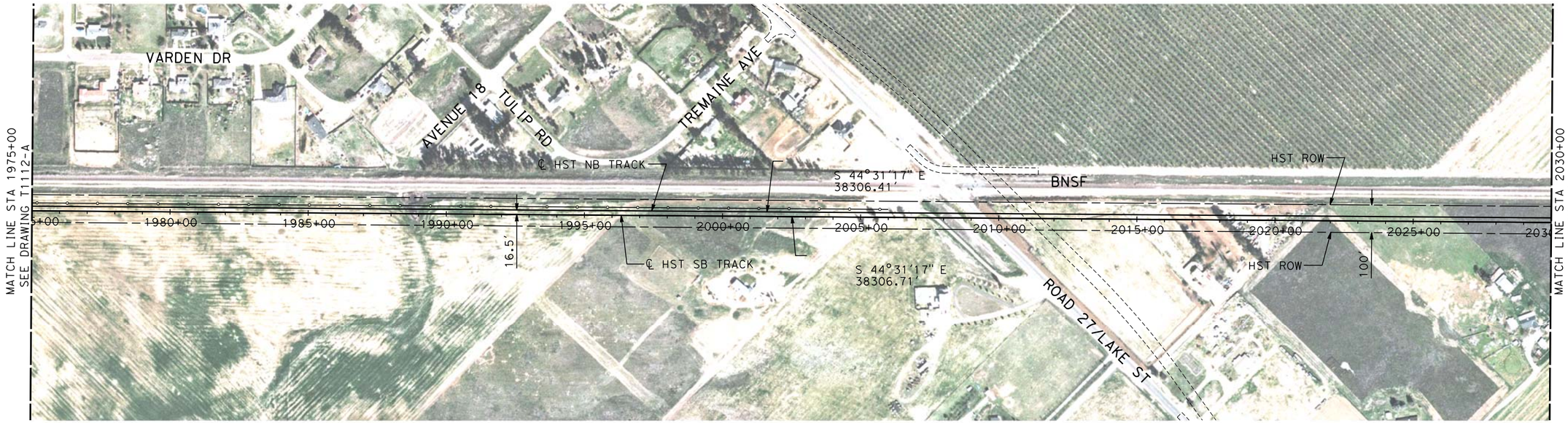
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 1920+00 TO STA 1975+00

CONTRACT NO. HSR06-007
DRAWING NO. T1112-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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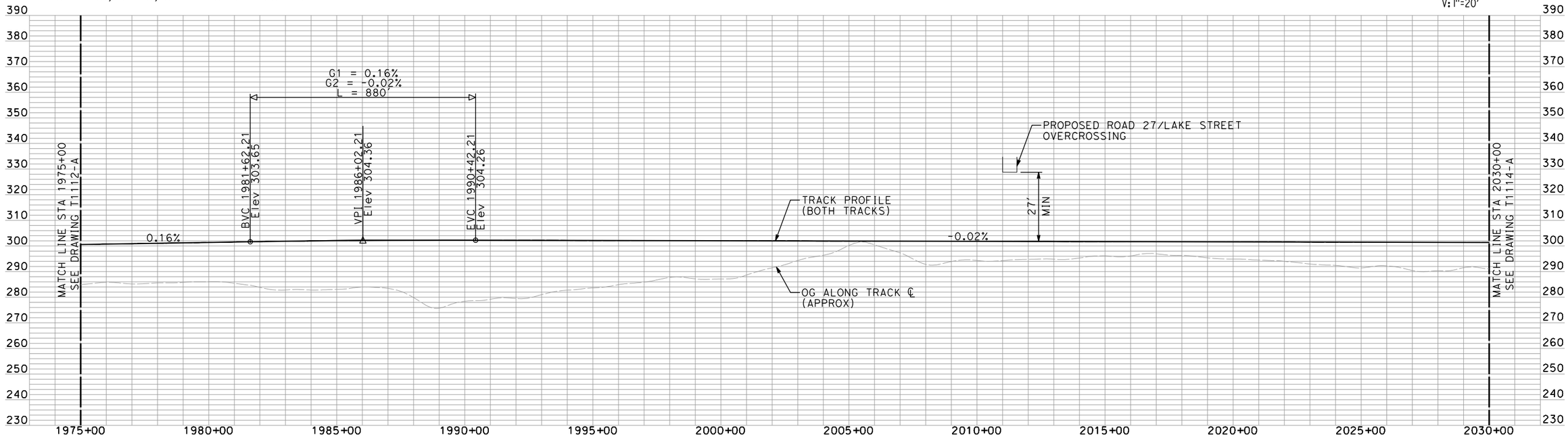


NOTES:
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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	02/17/12				NOISE BARRIER LIMITS

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

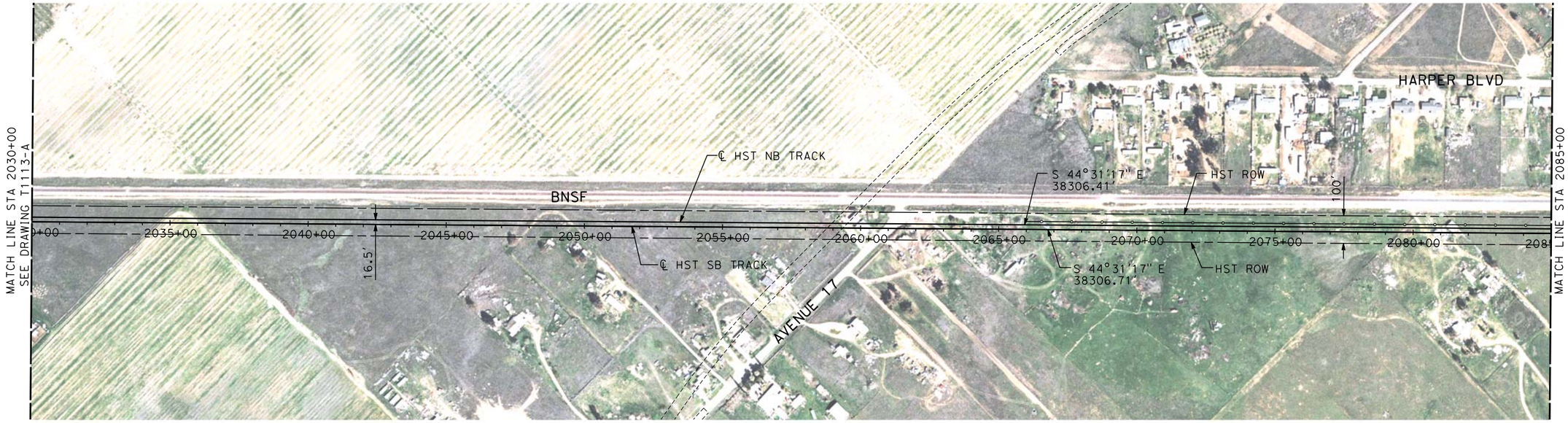
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 1975+00 TO STA 2030+00

CONTRACT NO. HSR06-007
DRAWING NO. T1113-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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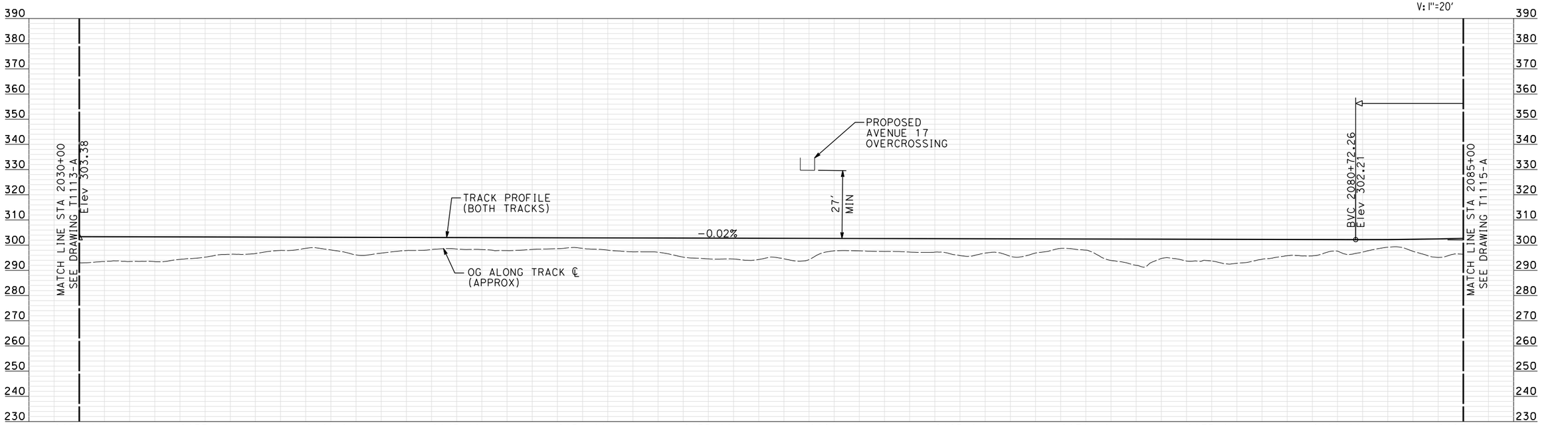


PLAN

NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	02/21/2012	AS			SR 145 REDESIGN

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

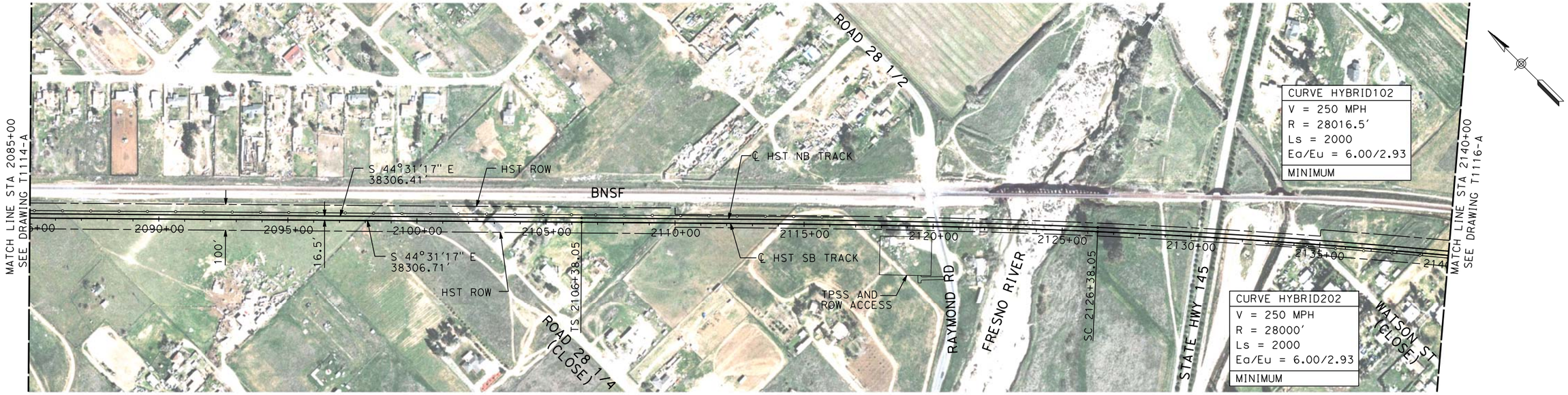
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 2030+00 TO STA 2085+00

CONTRACT NO. HSR06-007
DRAWING NO. T1114-A
SCALE AS SHOWN
SHEET NO. ### OF ###

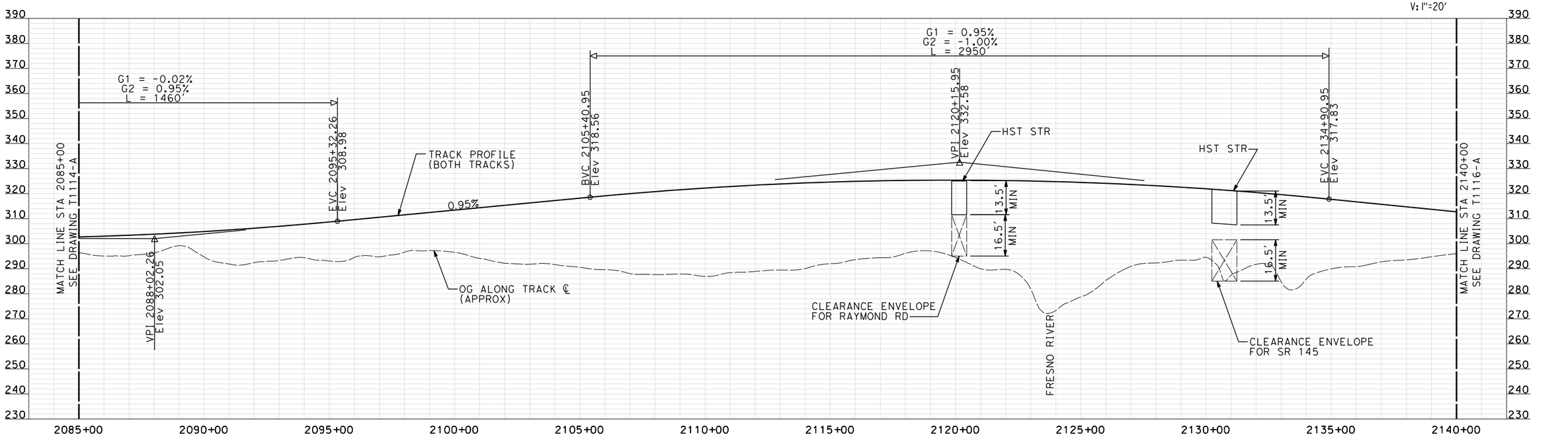
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shieldsa



PLAN

NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

H: 1"=200'
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
11	02/17/2012	AS			SR 145 REDESIGN

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

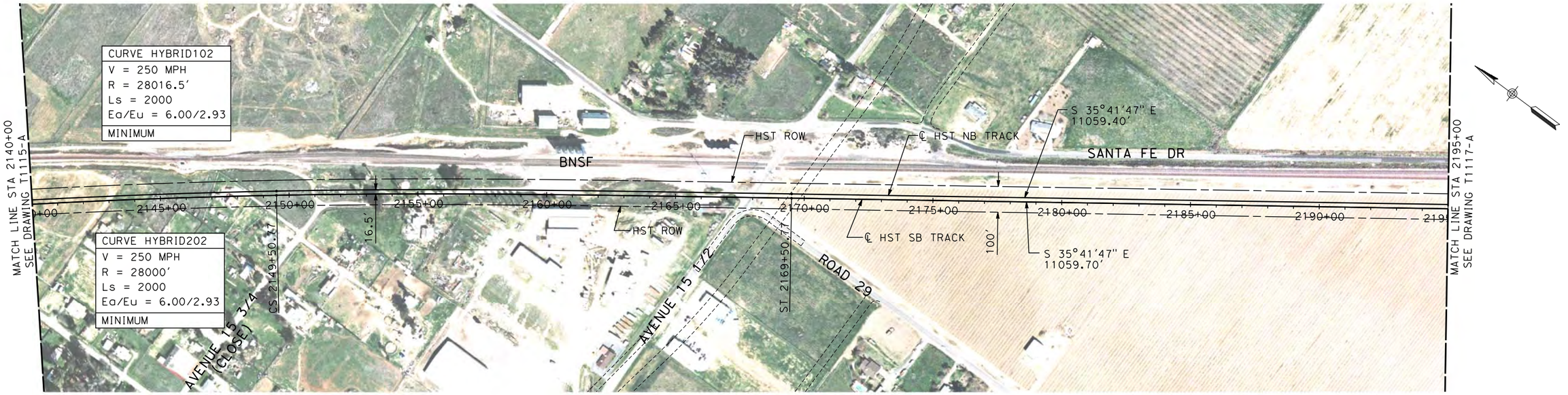
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 2085+00 TO STA 2140+00

CONTRACT NO. HSR06-007
DRAWING NO. T1115-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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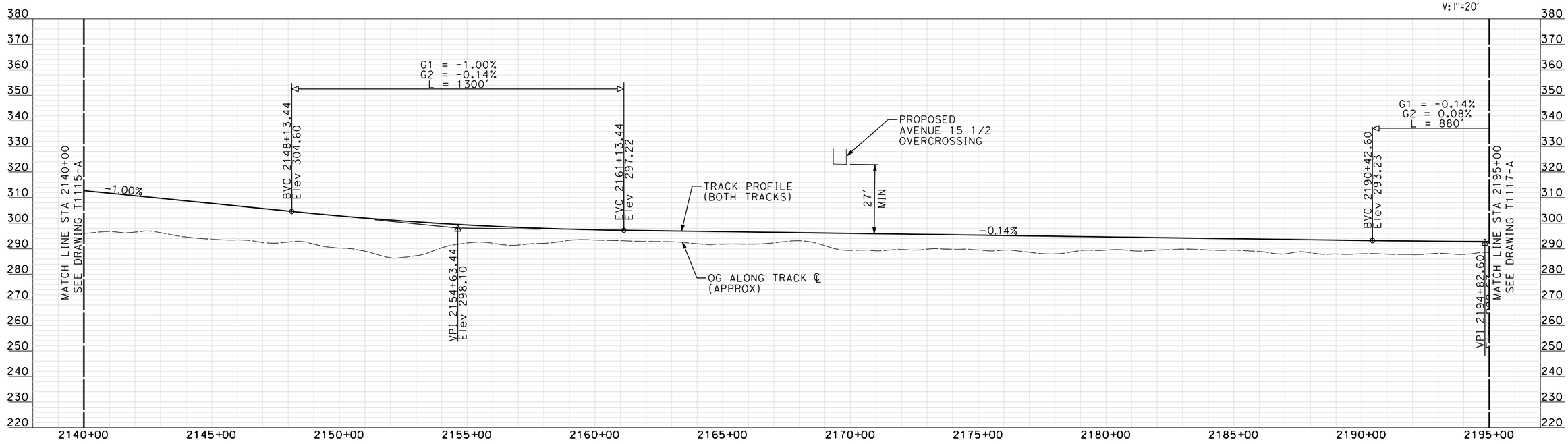


PLAN

NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	02/12/12				TRACK REALIGNMENT / SR 145 REDESIGN

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 02/17/2012

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

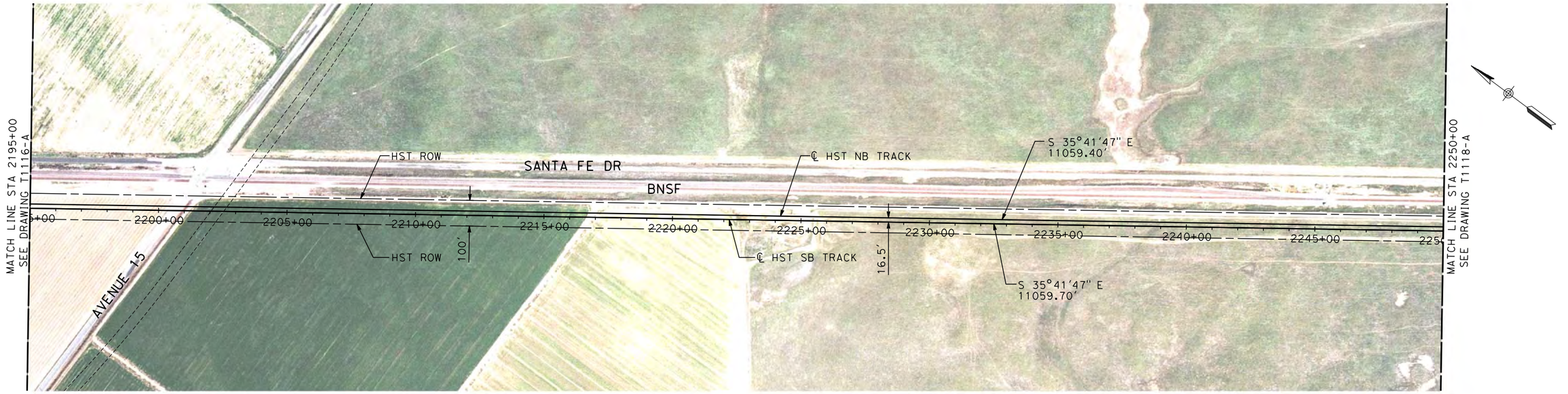
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 2140+00 TO STA 2195+00

CONTRACT NO. HSR06-007
DRAWING NO. T1116-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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shieldsa

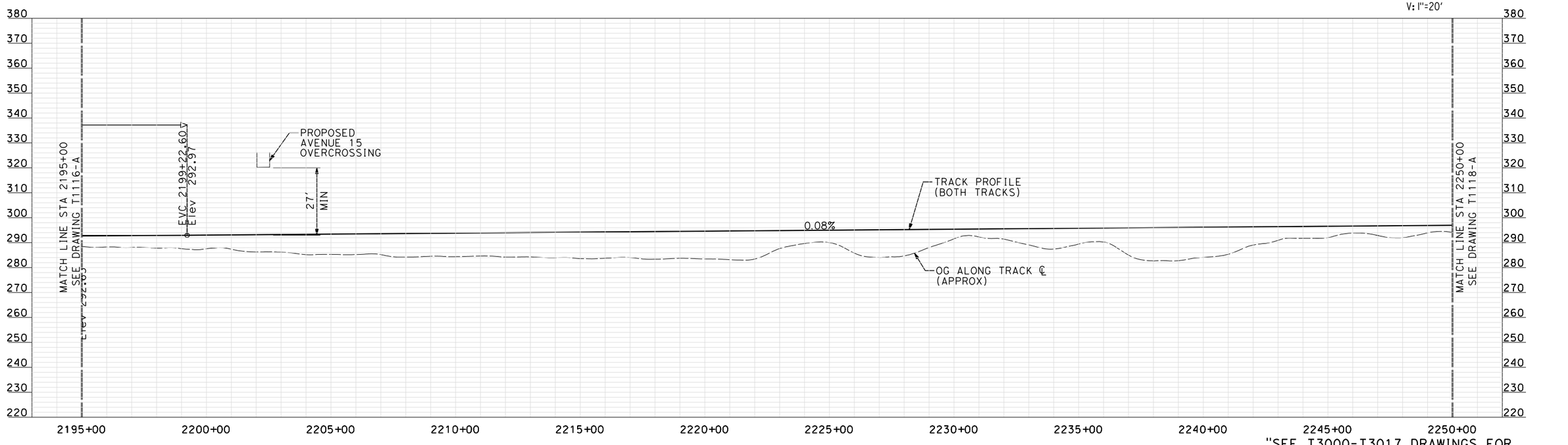


PLAN

H: 1"=200'

V: 1"=20'

NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	02/01/2012	AS			TRACK REALIGNMENT / SR 145 REDESIGN

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

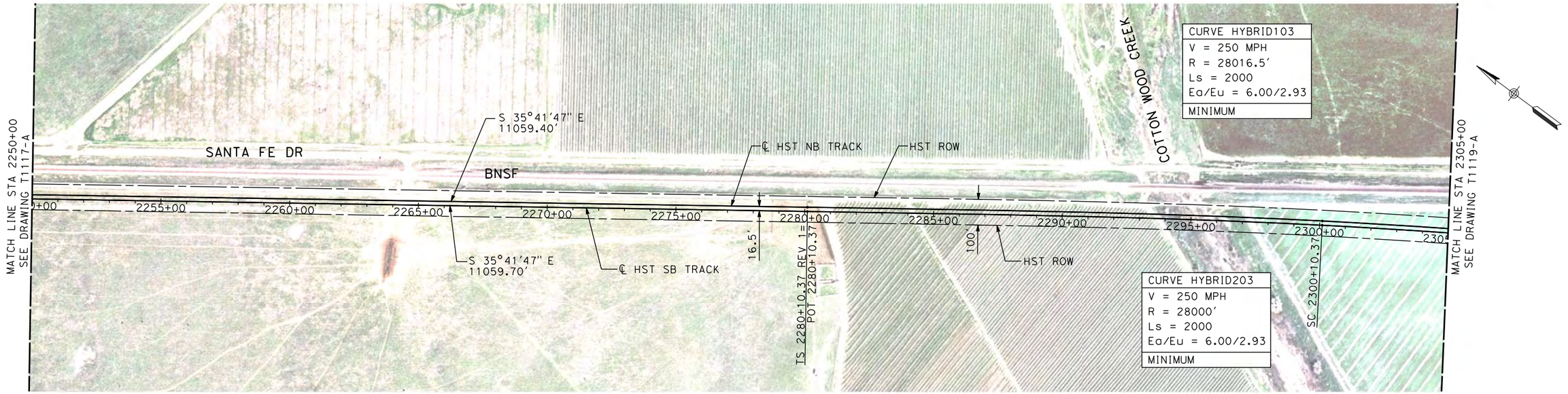
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 2195+00 TO STA 2250+00

CONTRACT NO. HSR06-007
DRAWING NO. T1117-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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shieldsa

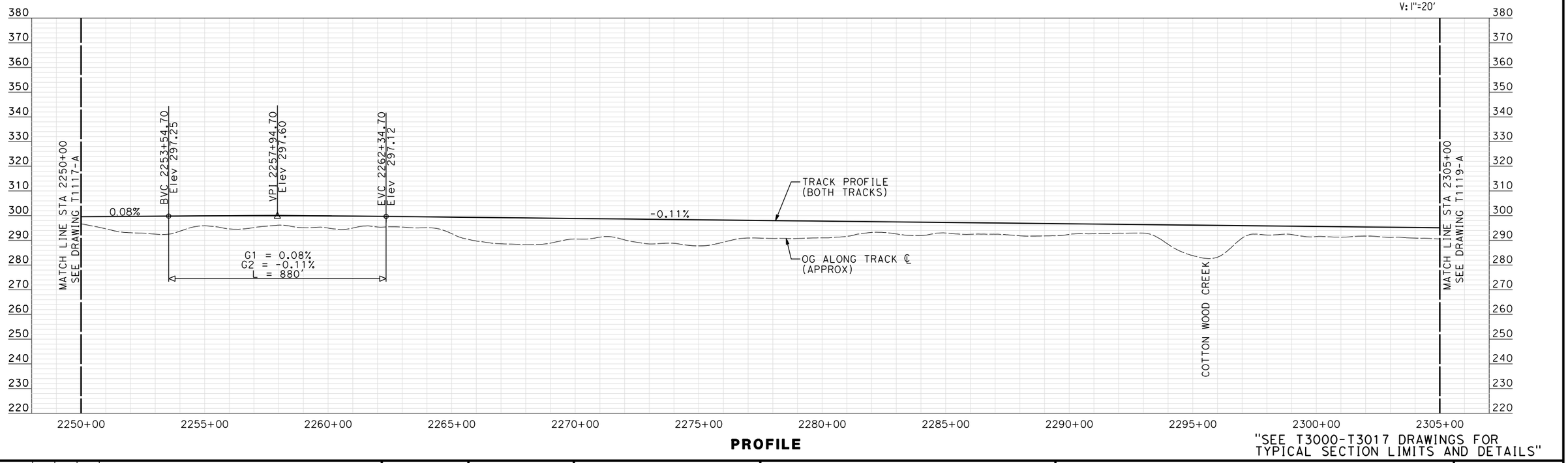


PLAN

NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

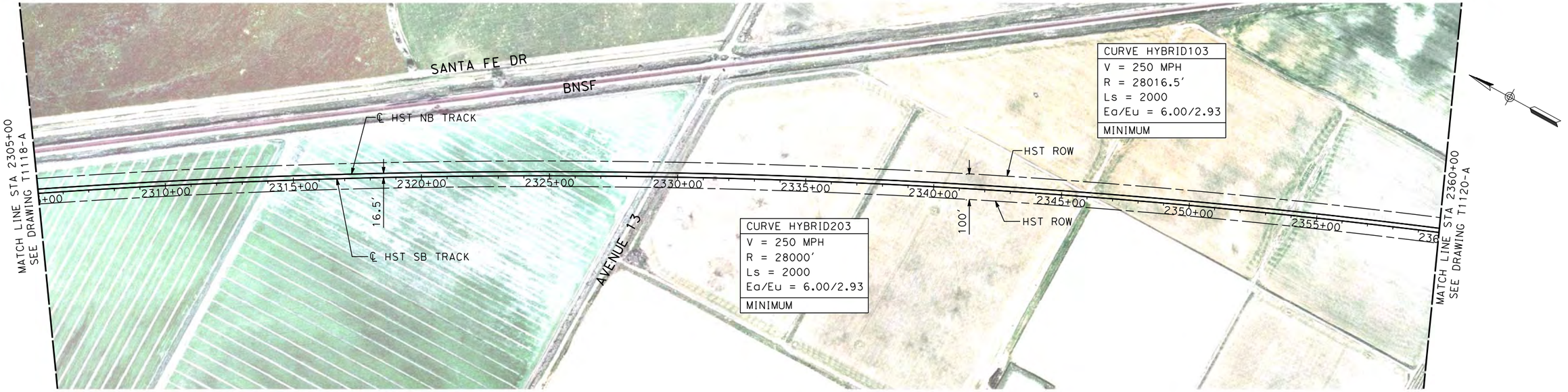
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 2250+00 TO STA 2305+00

CONTRACT NO. HSR06-007
DRAWING NO. T1118-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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shieldsa

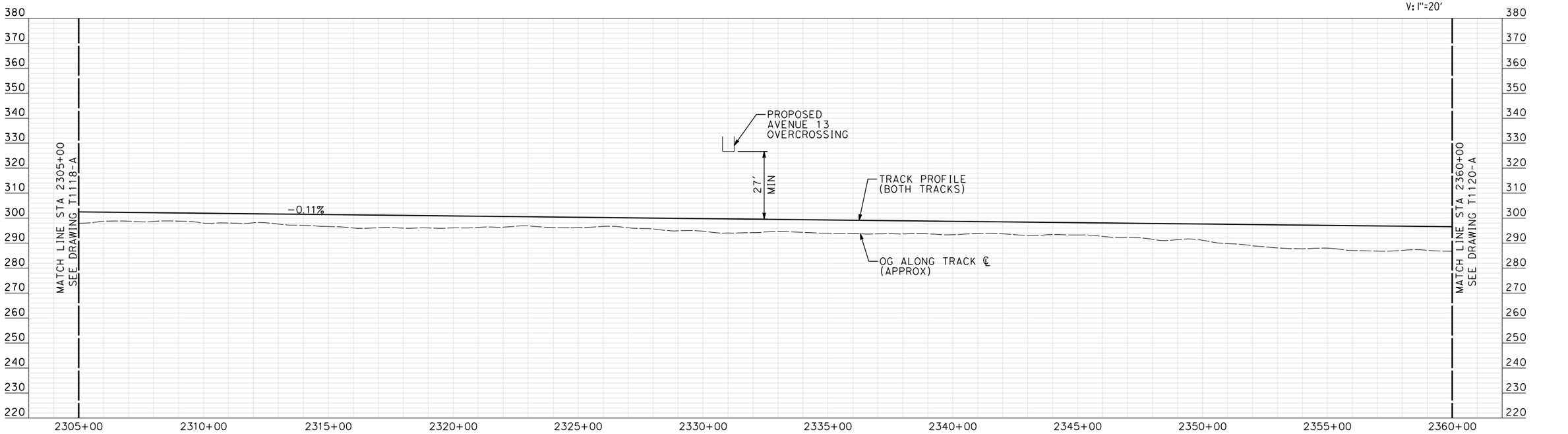


PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'

NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

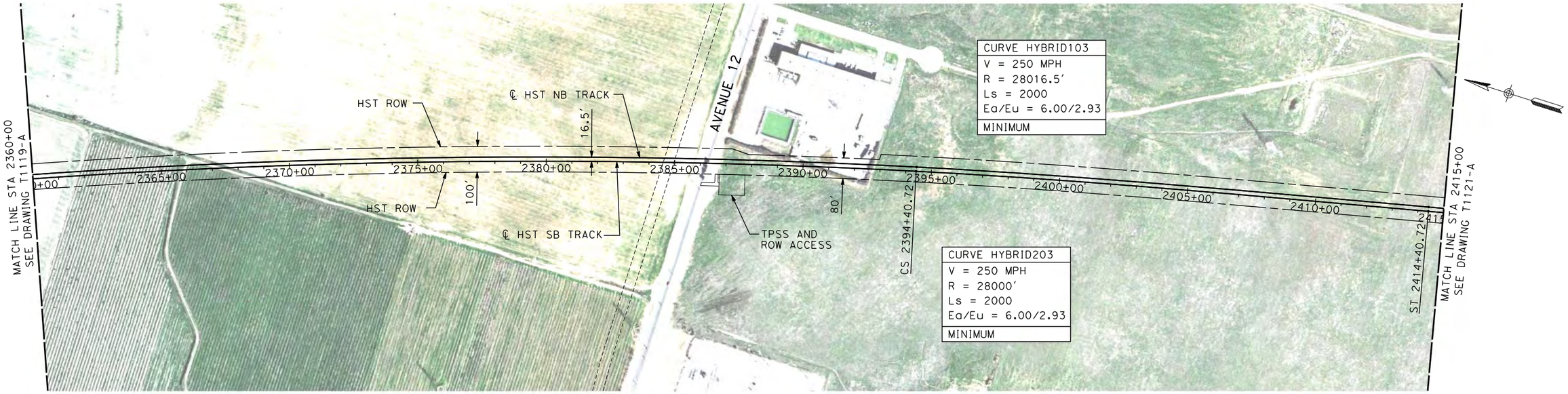
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 2305+00 TO STA 2360+00

CONTRACT NO. HSR06-007
DRAWING NO. T1119-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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shieldsa

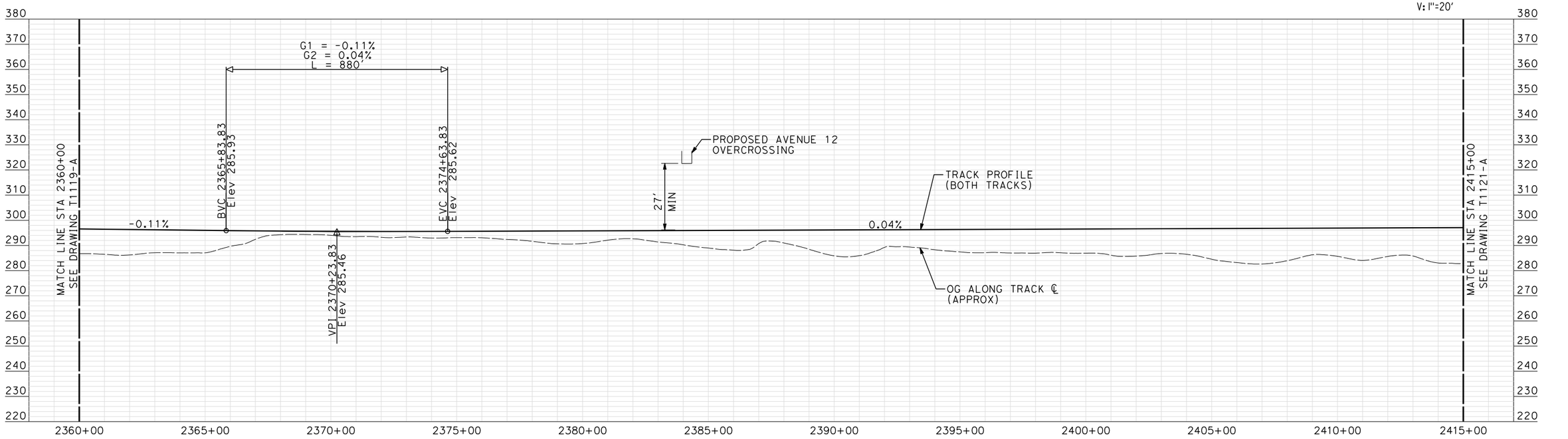


PLAN

NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

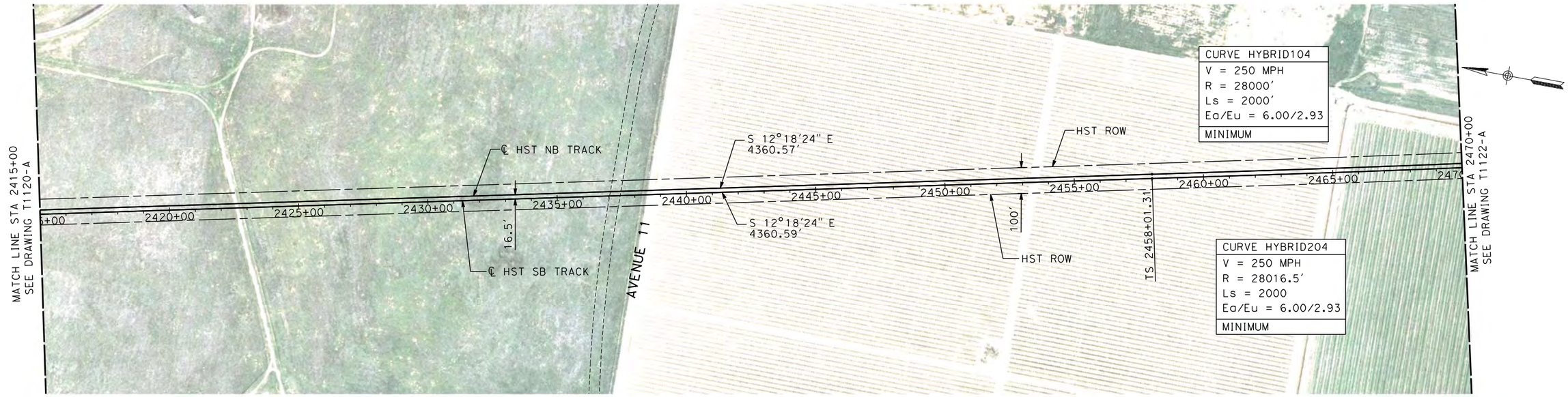
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 2360+00 TO STA 2415+00

CONTRACT NO. HSR06-007
DRAWING NO. T1120-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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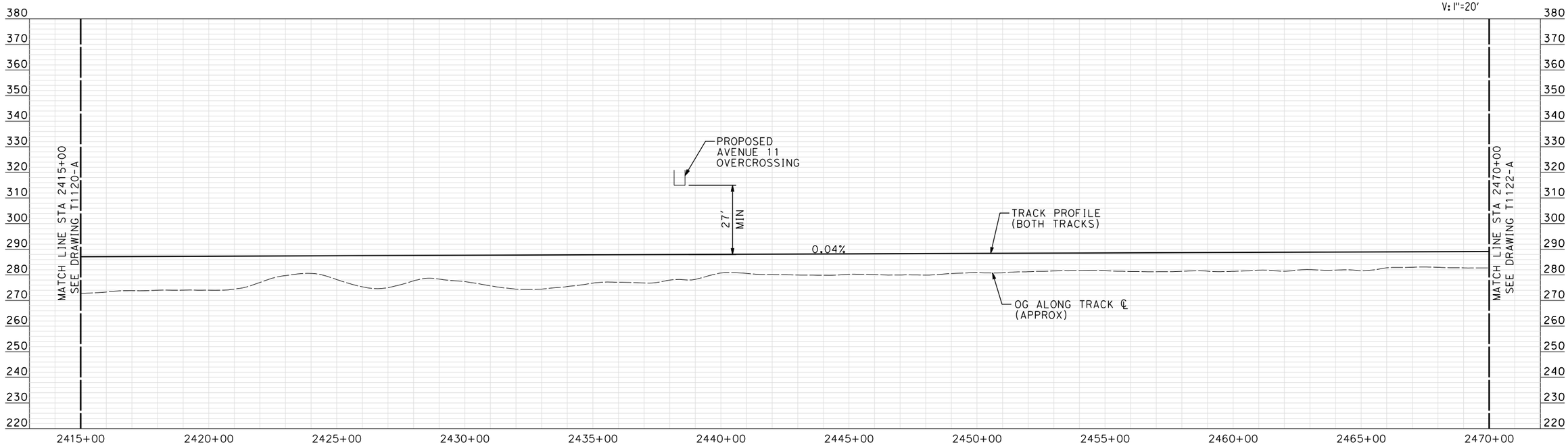


PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'

NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

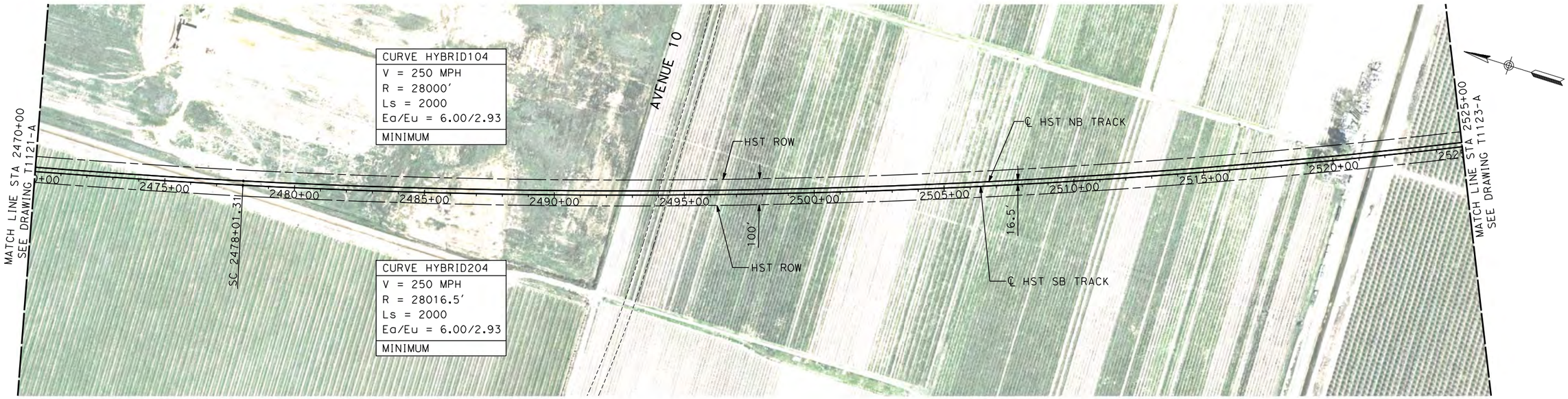
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 2415+00 TO STA 2470+00

CONTRACT NO. HSR06-007
DRAWING NO. T1121-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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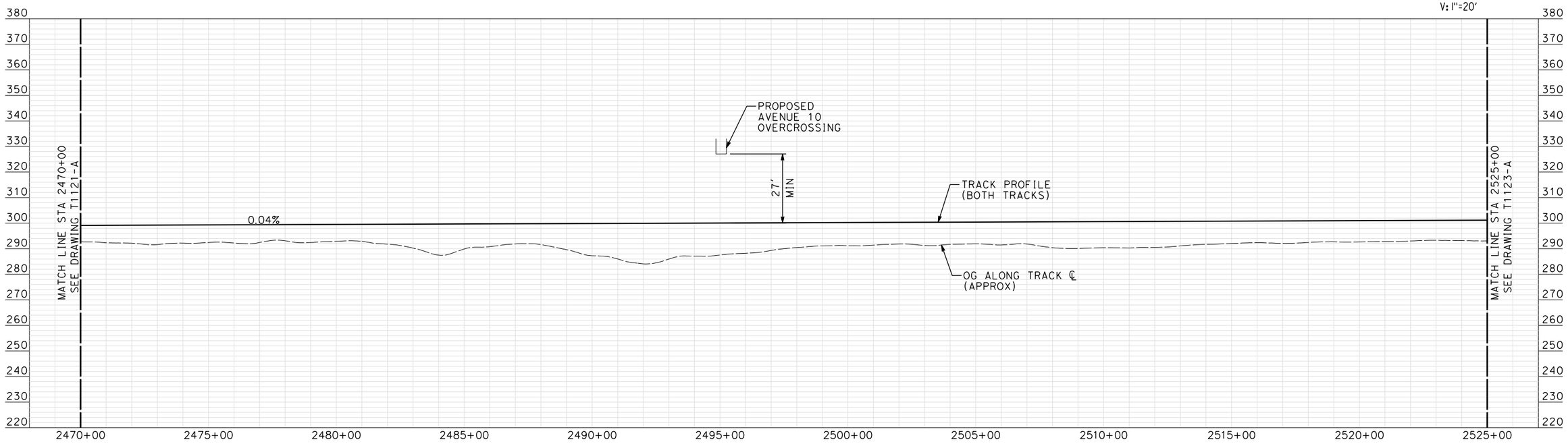


PLAN

H: 1"=200'

V: 1"=20'

NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

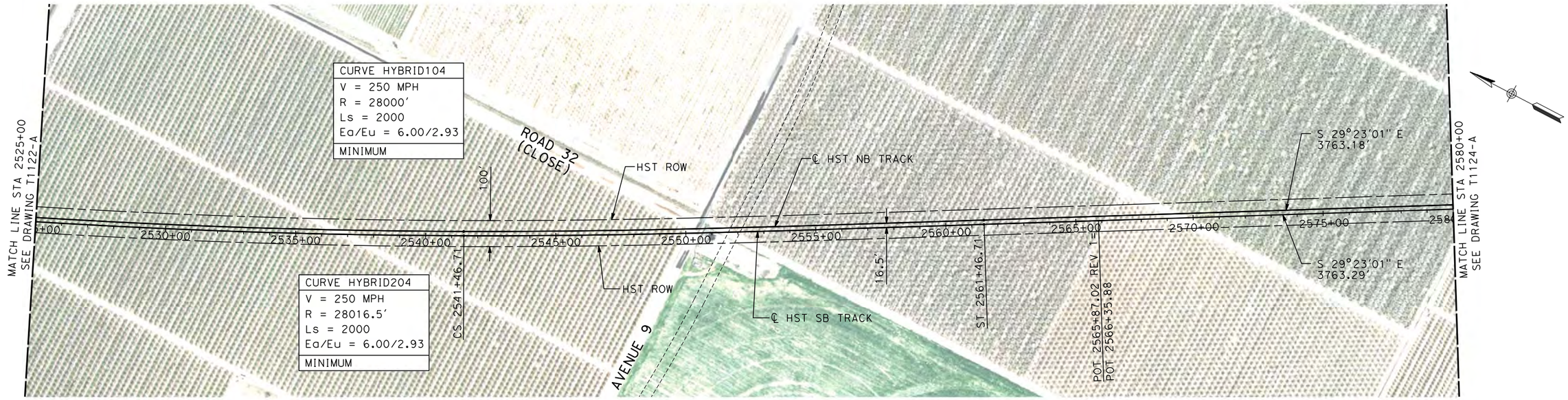
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 2470+00 TO STA 2525+00

CONTRACT NO. HSR06-007
DRAWING NO. T1122-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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shieldsa

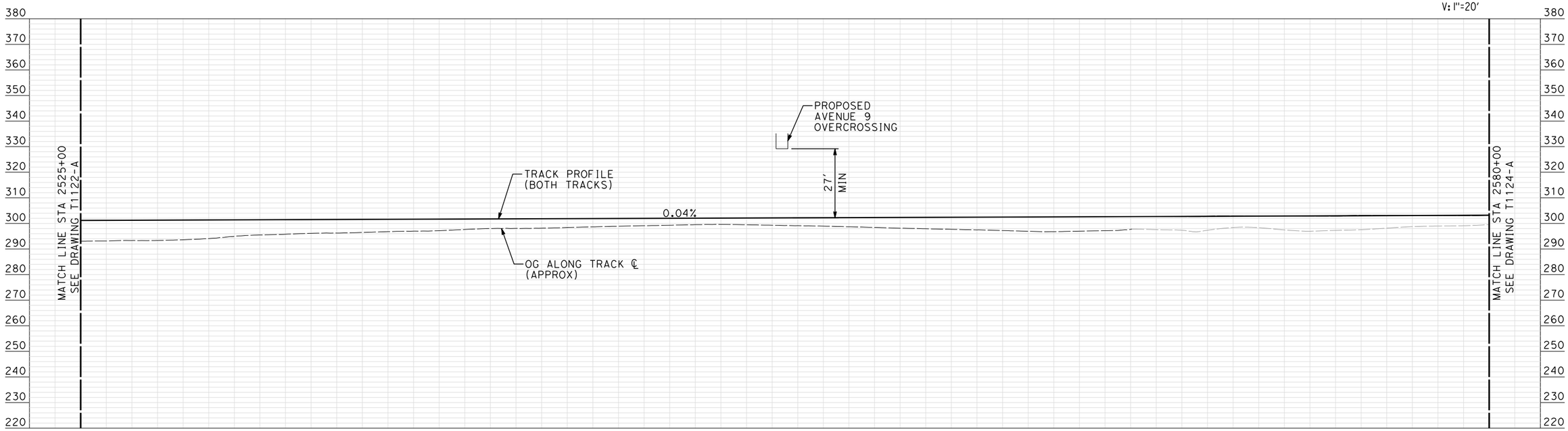


PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'

NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

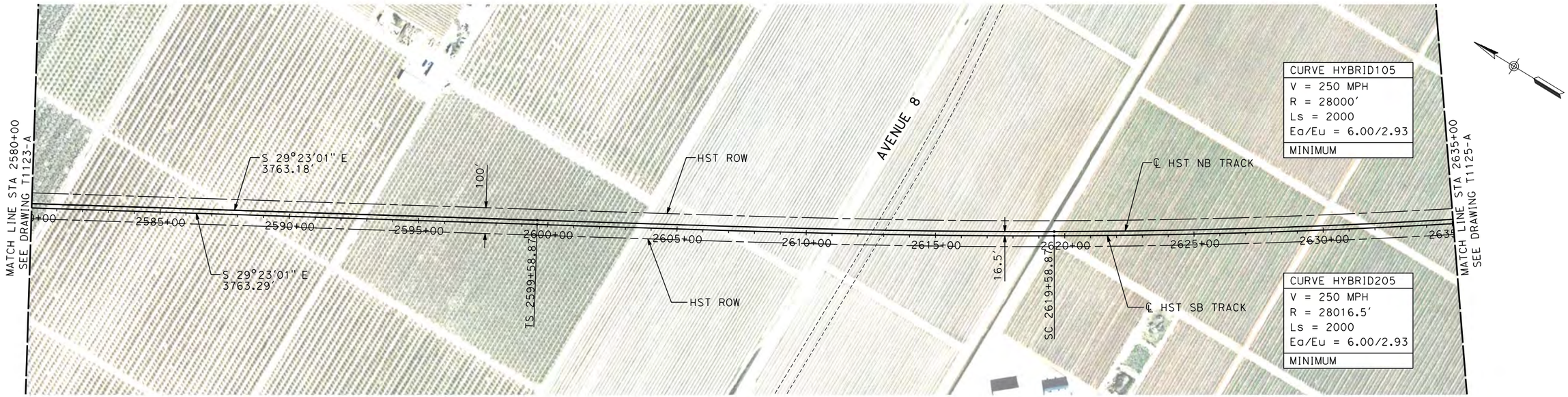
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 2525+00 TO STA 2580+00

CONTRACT NO. HSR06-007
DRAWING NO. T1123-A
SCALE AS SHOWN
SHEET NO. ### OF ###

1/6/2012 11:06:56 AM \\usscr1fp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDSA\Rev 1 - 15% Plans\Hybrid 24\MF-T-1123-A.dgn
shieldsa

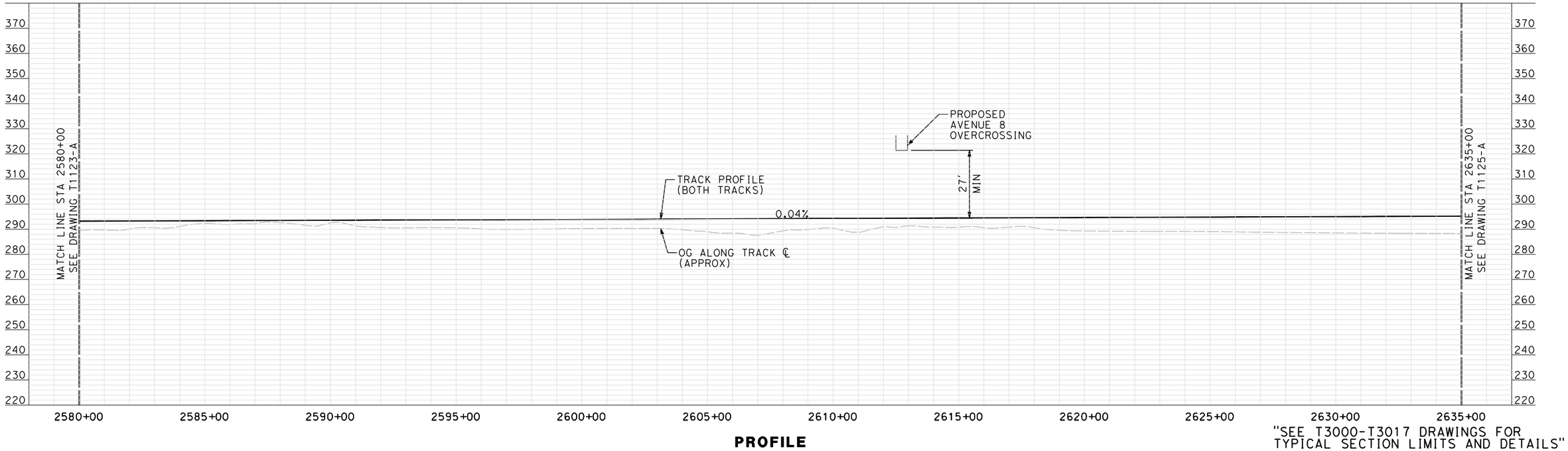


NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

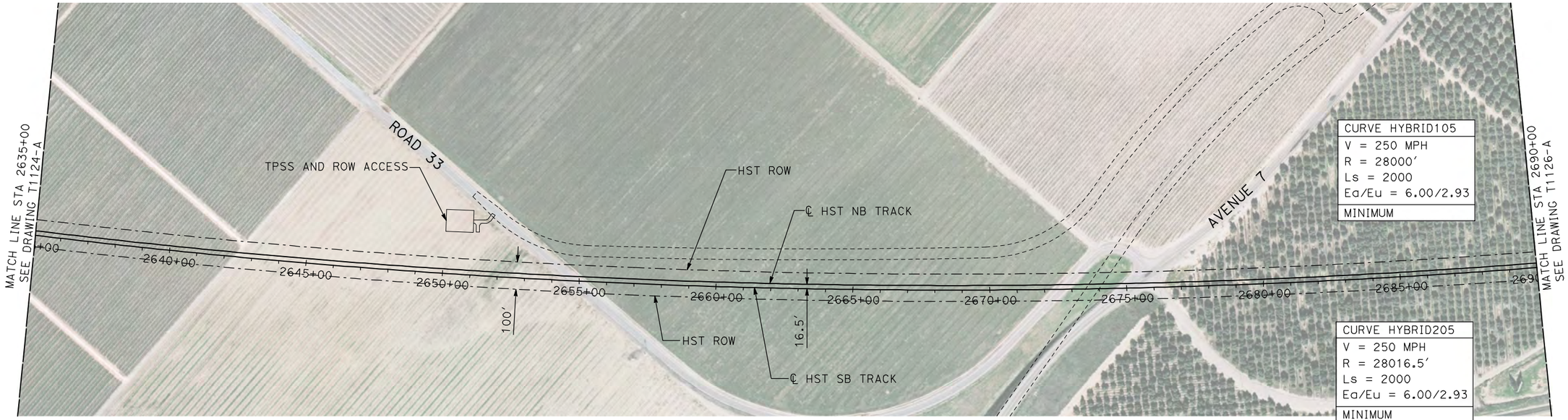
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 2580+00 TO STA 2635+00

CONTRACT NO. HSR06-007
DRAWING NO. T1124-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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shieldsa

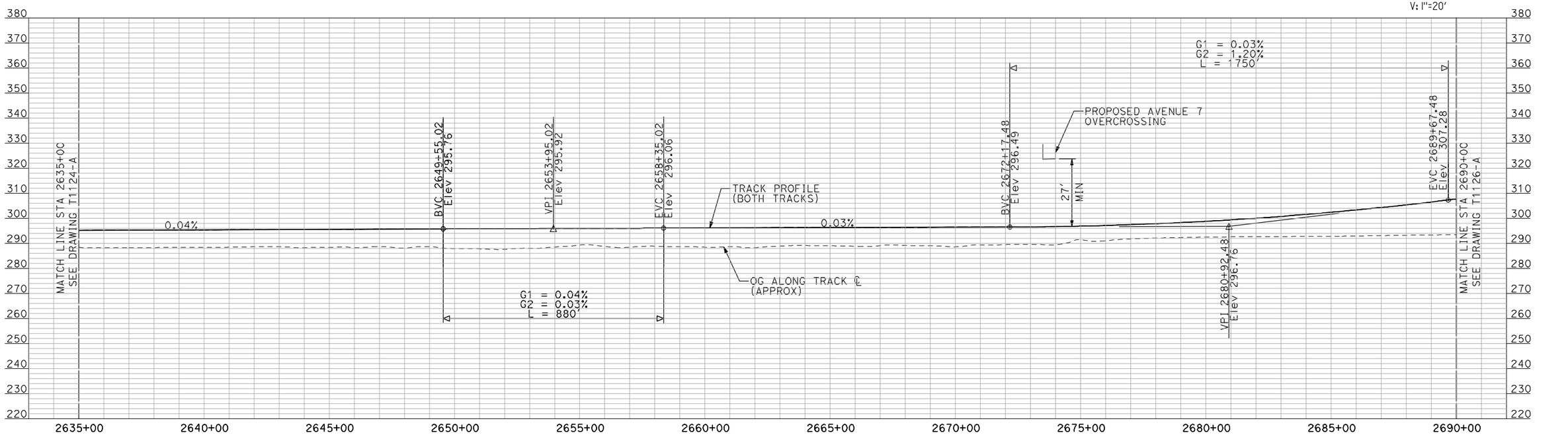


NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

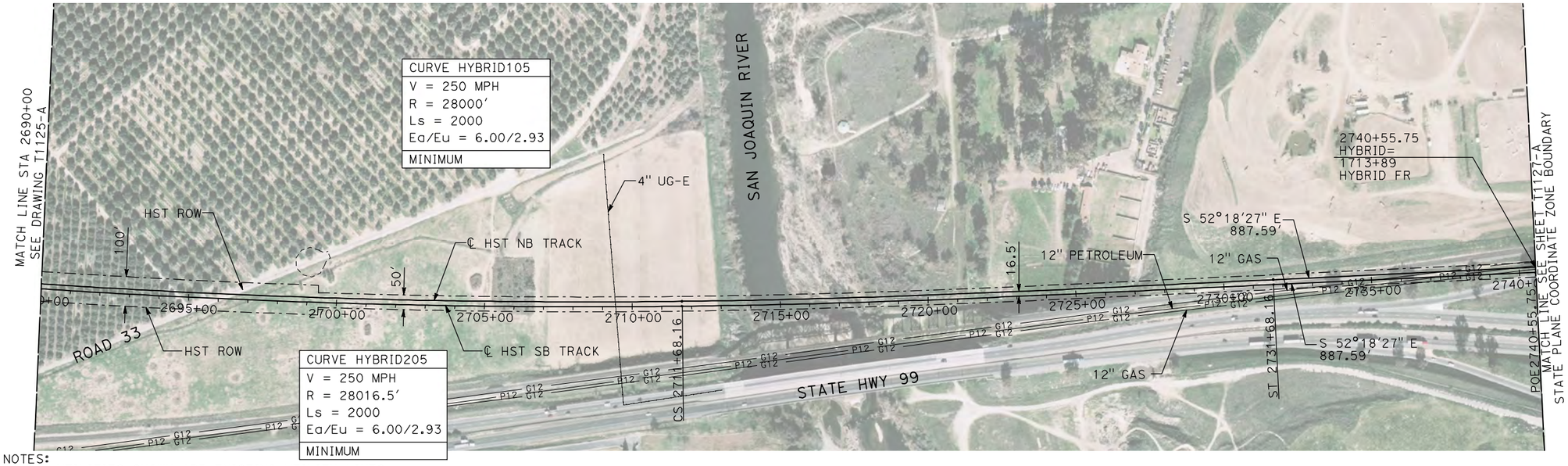
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 2635+00 TO STA 2690+00

CONTRACT NO. HSR06-007
DRAWING NO. T1125-A
SCALE AS SHOWN
SHEET NO. ### OF ###

machadoe 7/21/2011 2:58:04 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\delr\HYBRID 24\WF-T-1125-A.dgn

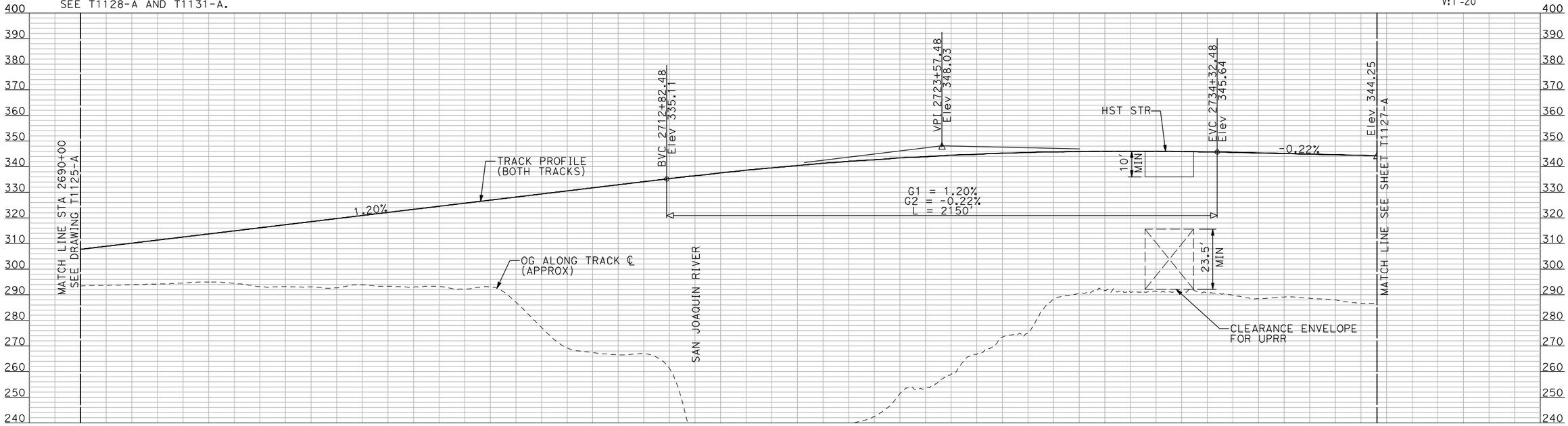


PLAN

NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.
3. FOR CONTROLLING CLEARANCE ENVELOPE, SEE T1128-A AND T1131-A.

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

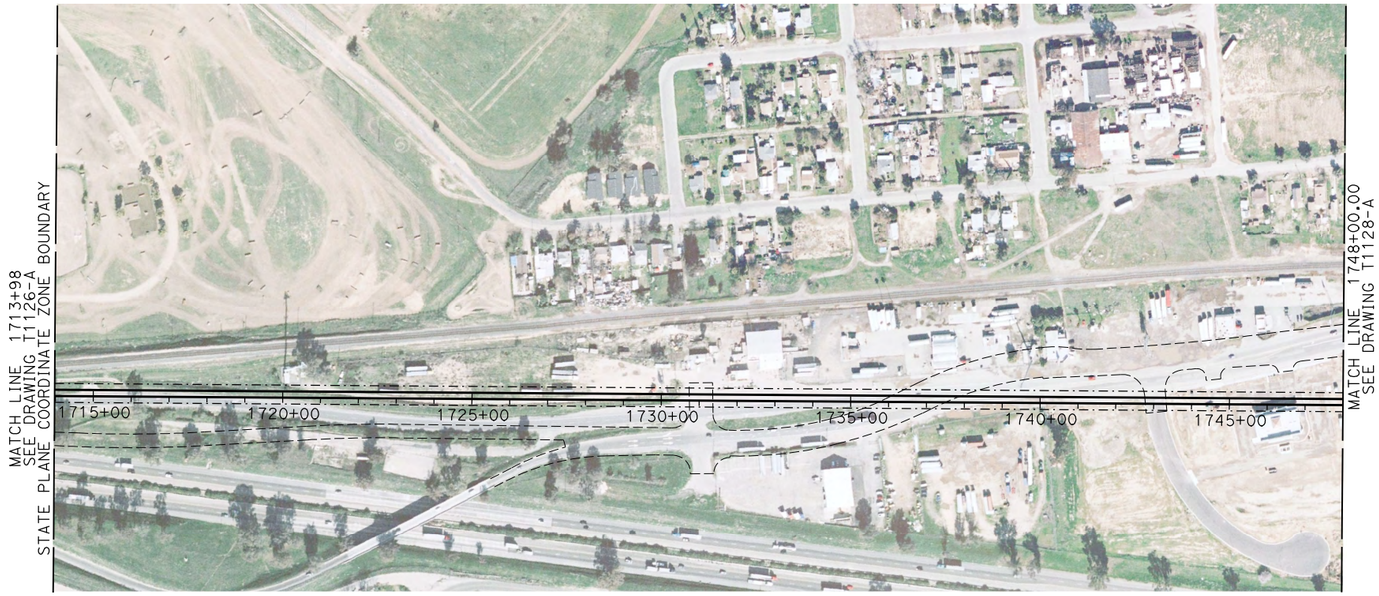
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 2690+00 TO STA 2740+55.75

CONTRACT NO. HSR06-007
DRAWING NO. T1126-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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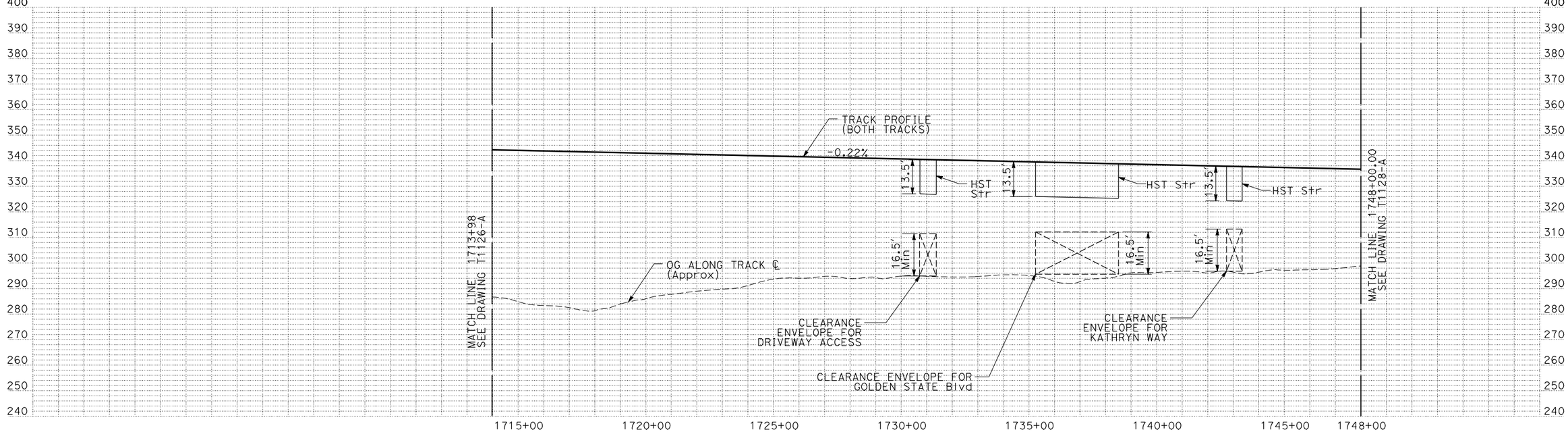


PLAN

200 0 200 400
HORIZONTAL SCALE 1"=200'
20 0 20 40
VERTICAL SCALE 1"=20'

NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. CHIU
DRAWN BY M. McKEON
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE MAY 2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 1713+98 TO STA 1748+00

CONTRACT NO. HSR06-007
DRAWING NO. T1127-A
SCALE AS SHOWN
SHEET NO.

DATE PLOTTED => 20-JUL-2011
TIME PLOTTED => 12:59

USERNAME => lwebster
DGN FILE => MF-T-1127-HYB-



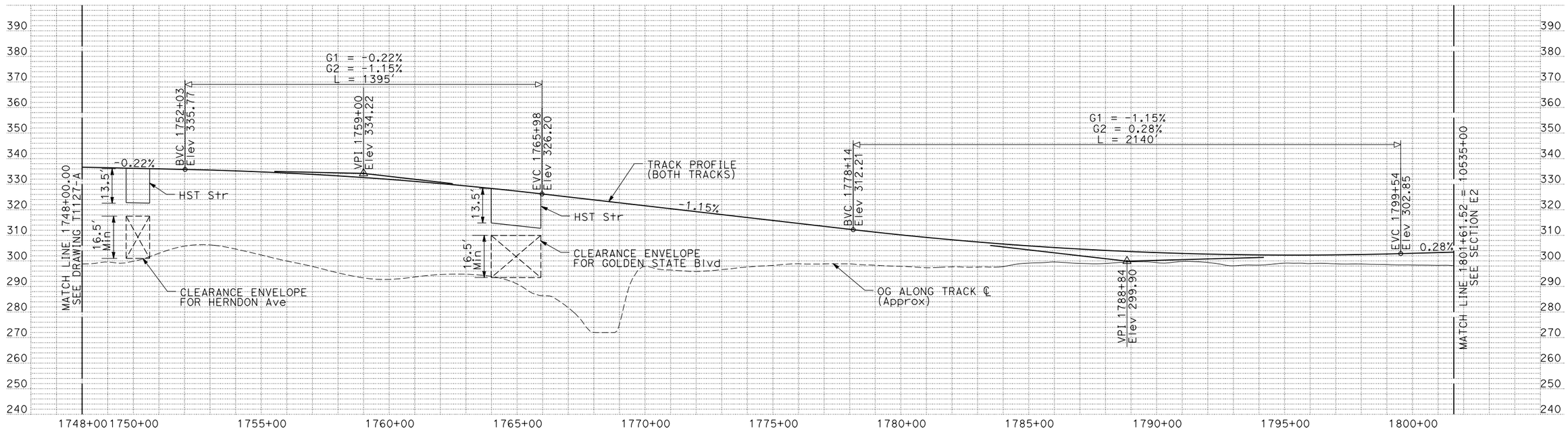
PLAN

HORIZONTAL SCALE 1"=200'

VERTICAL SCALE 1"=20'

NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. CHIU
DRAWN BY M. McKEON
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE MAY 2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

HYBRID

PLAN AND PROFILE
STA 1748+00 TO STA 1801+61.52

CONTRACT NO. HSR06-007
DRAWING NO. T1128-A
SCALE AS SHOWN
SHEET NO.

DATE PLOTTED => 05-JAN-2012

USERNAME => sleona



CURVE UPRR138
V = 150 MPH
R = 32000'
Ls = 220'
Eq/Eu =
150 MPH TURNOUT

CURVE UPRR139
V = 150 MPH
R = 24000'
Ls = 220'
Eq/Eu = 1.25/2.50
150 MPH TURNOUT

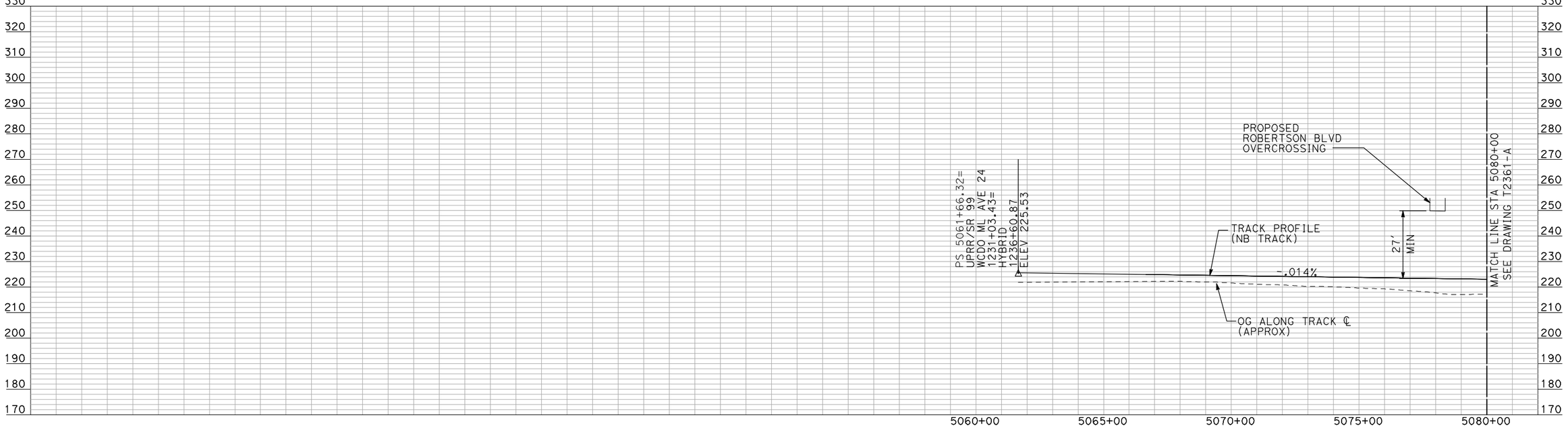
200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'

NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5061+66.32 TO STA 5080+00

CONTRACT NO. HSR06-007
DRAWING NO. T2360-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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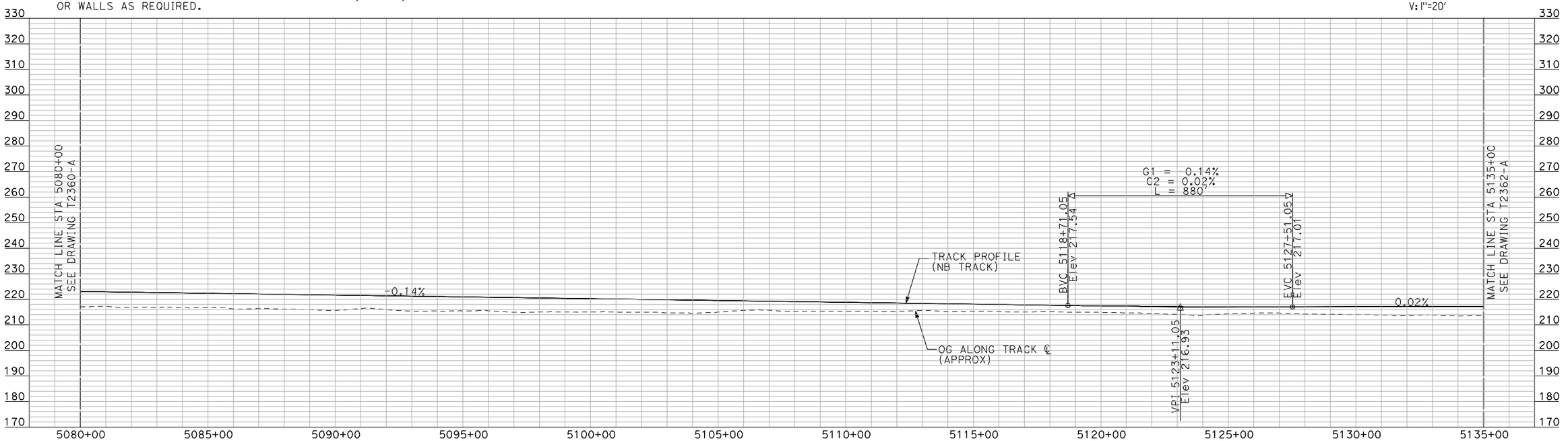
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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

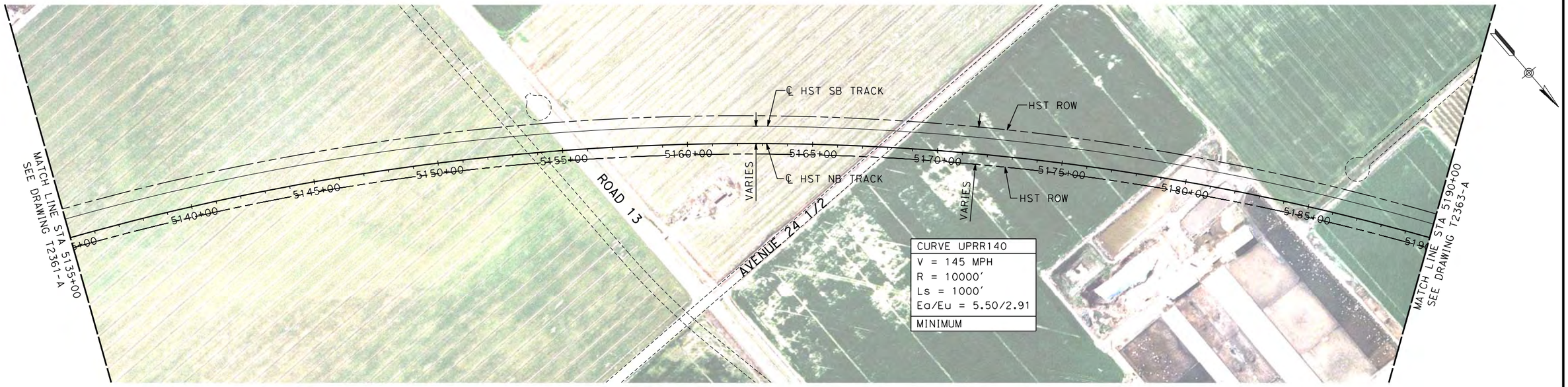
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5080+00 TO STA 5135+00

CONTRACT NO. HSR06-007
DRAWING NO. T2361-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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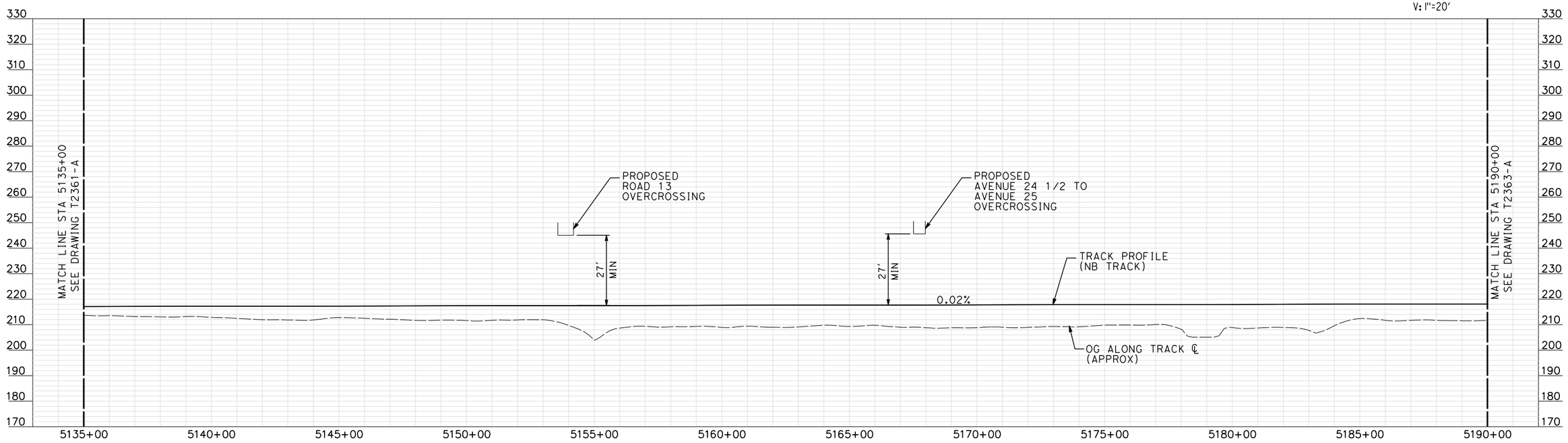


PLAN

NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			ROADWAY REALIGNMENT

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

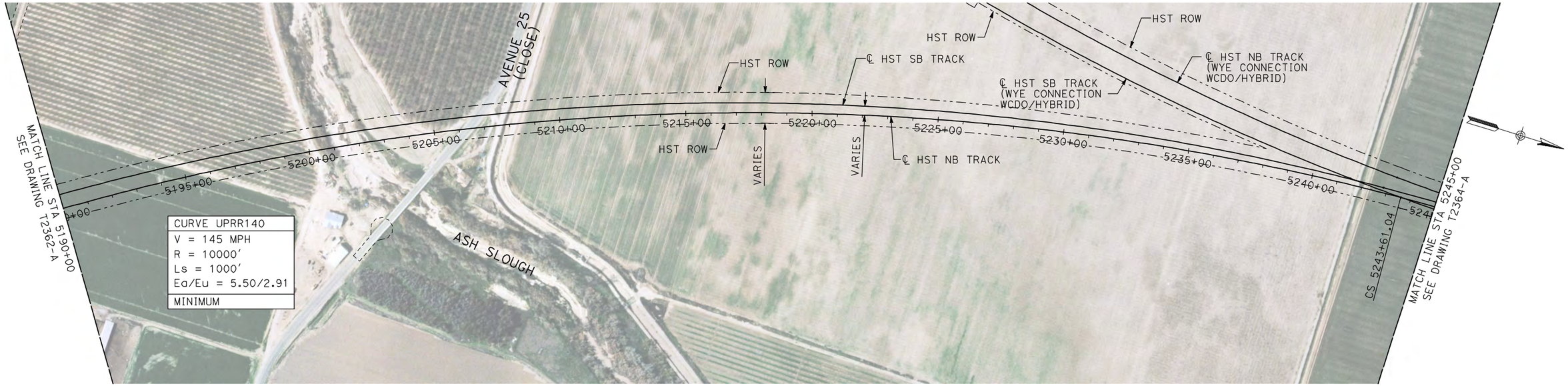
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5135+00 TO STA 5190+00

CONTRACT NO. HSR06-007
DRAWING NO. T2362-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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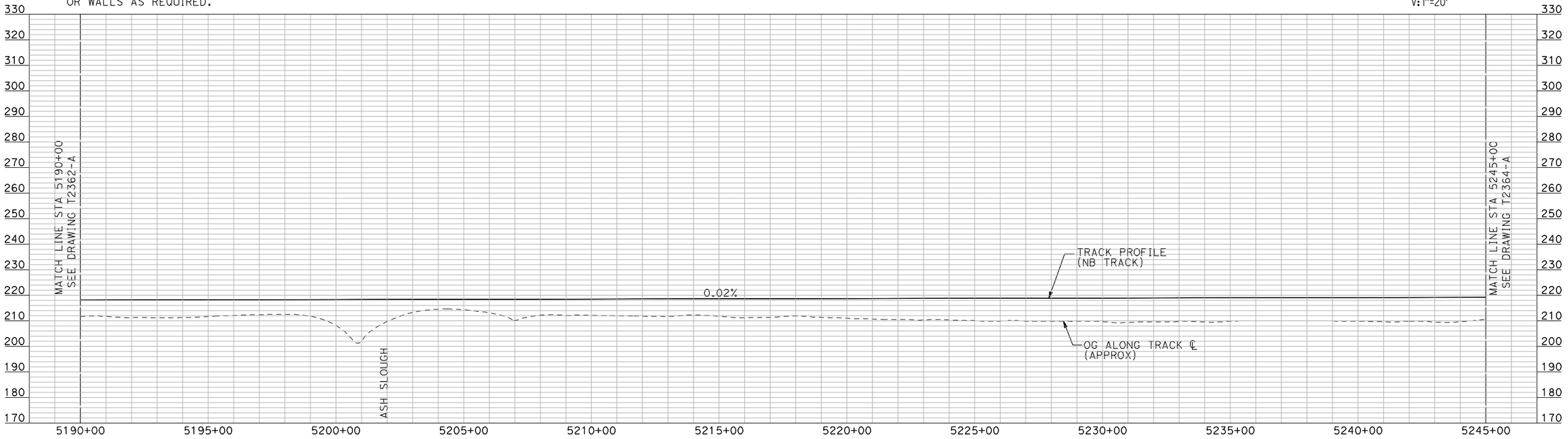
NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL
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AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

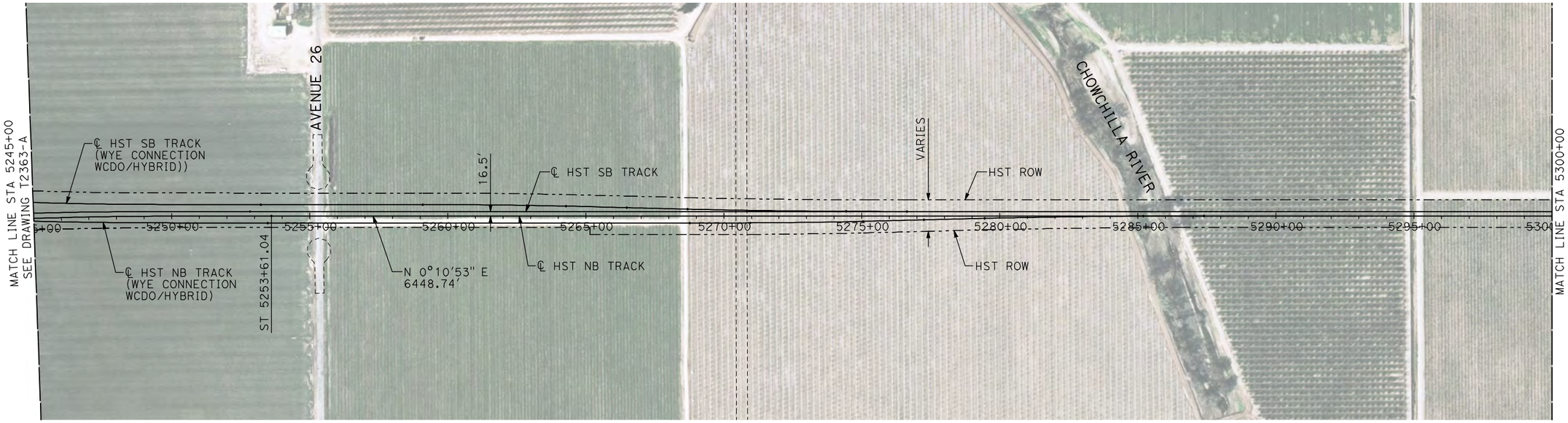
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5190+00 TO STA 5245+00

CONTRACT NO. HSR06-007
DRAWING NO. T2363-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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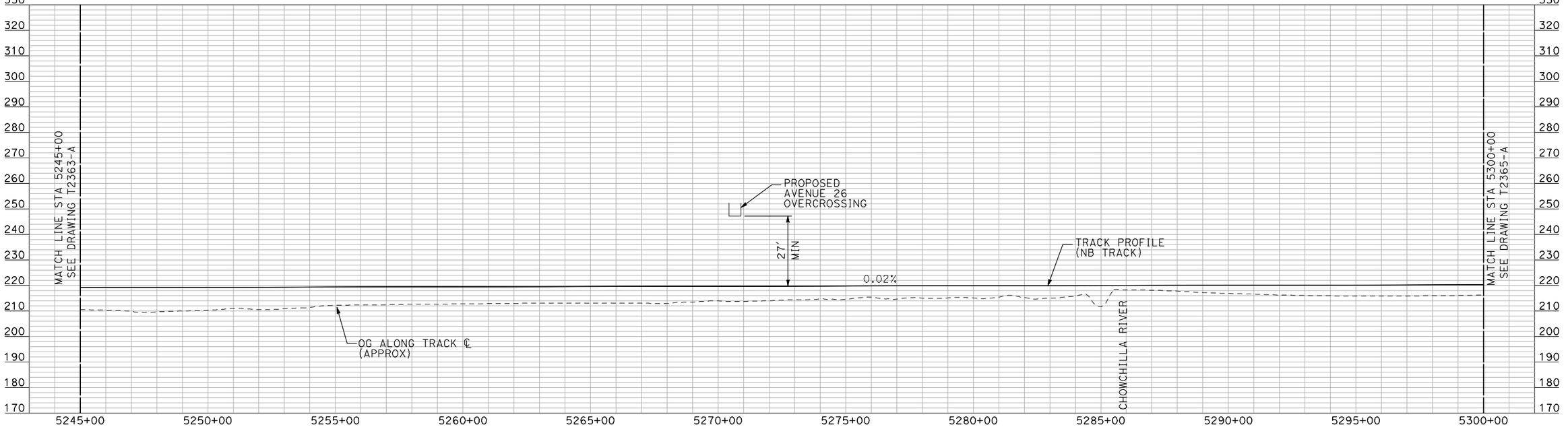
NOTES:

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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

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Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL

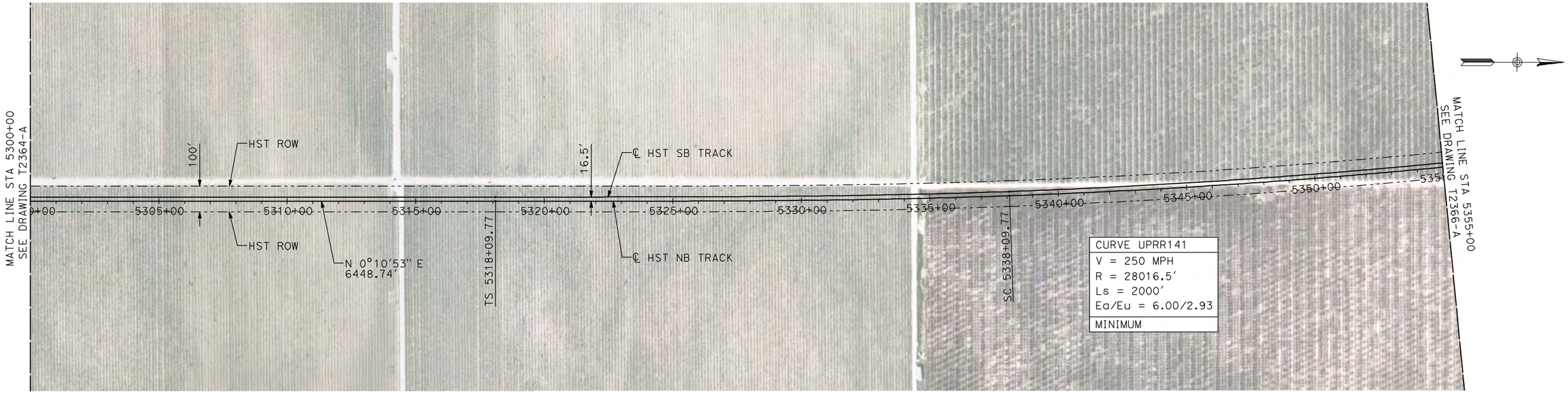
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5245+00 TO STA 5300+00

CONTRACT NO. HSR06-007
DRAWING NO. T2364-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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machadoe



NOTES:

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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

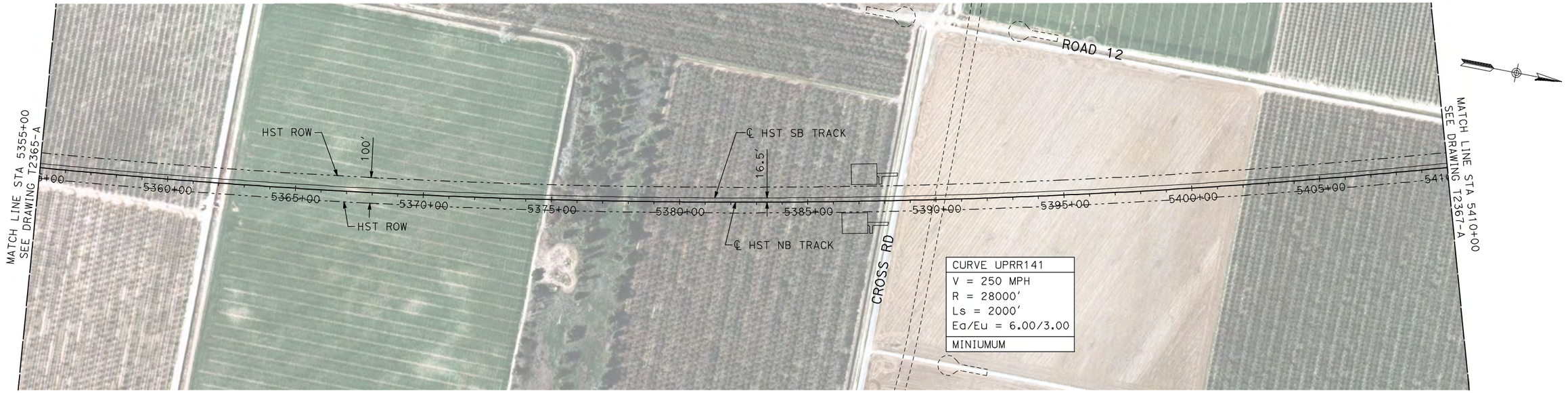
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5300+00 TO STA 5355+00

CONTRACT NO. HSR06-007
DRAWING NO. T2365-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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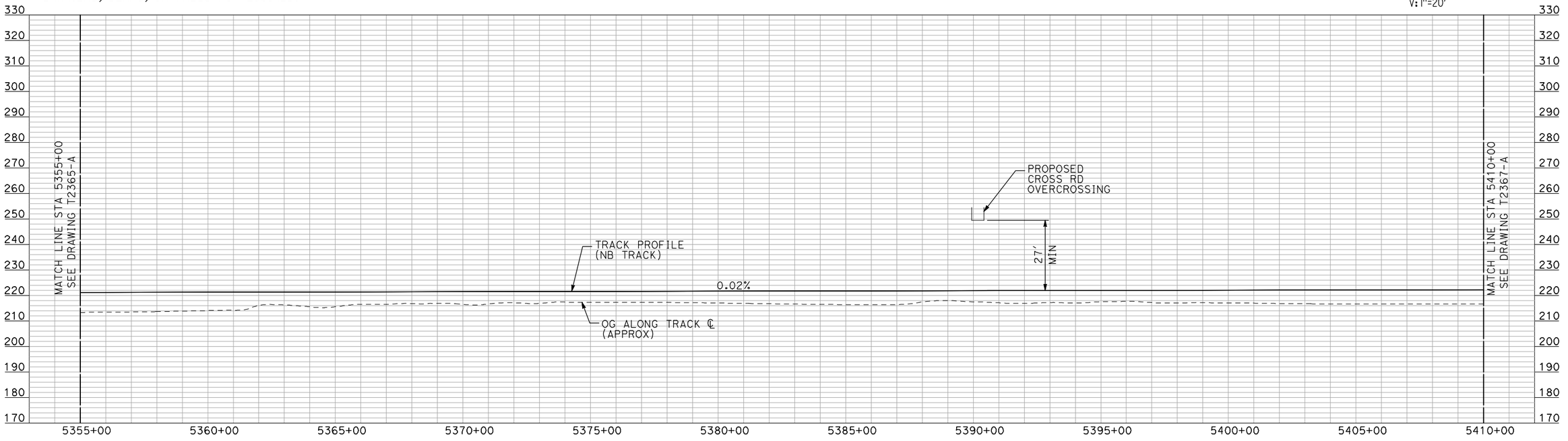


NOTES:
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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

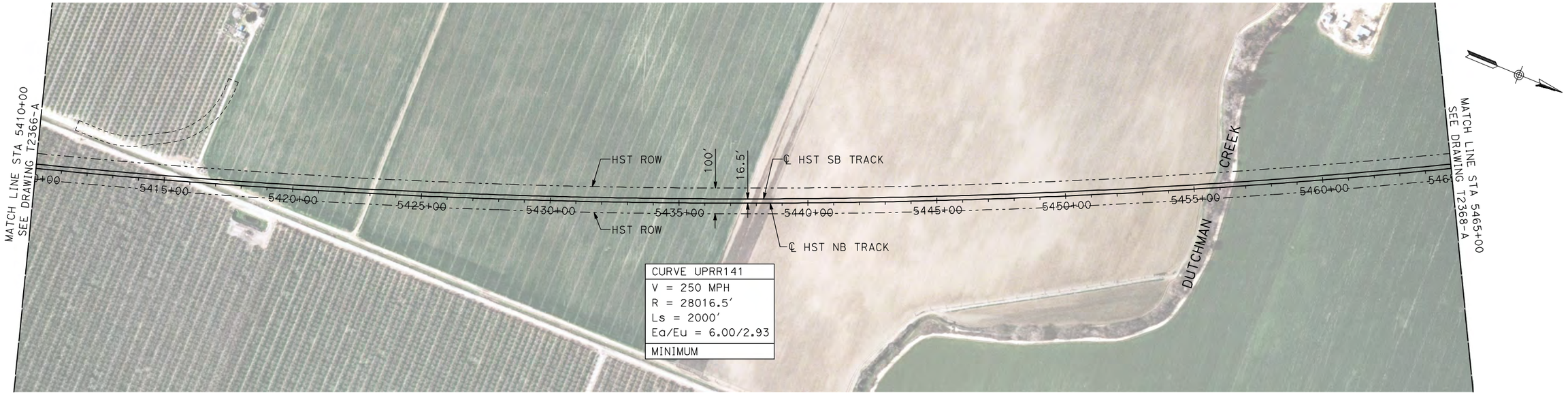
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5355+00 TO STA 5410+00

CONTRACT NO. HSR06-007
DRAWING NO. T2366-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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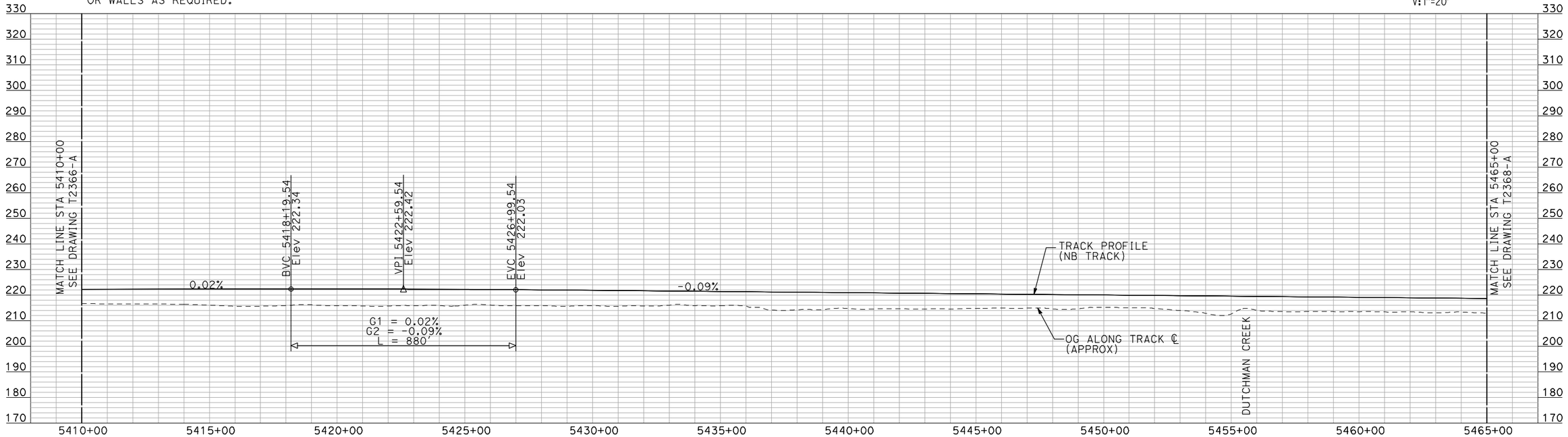
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PLAN

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

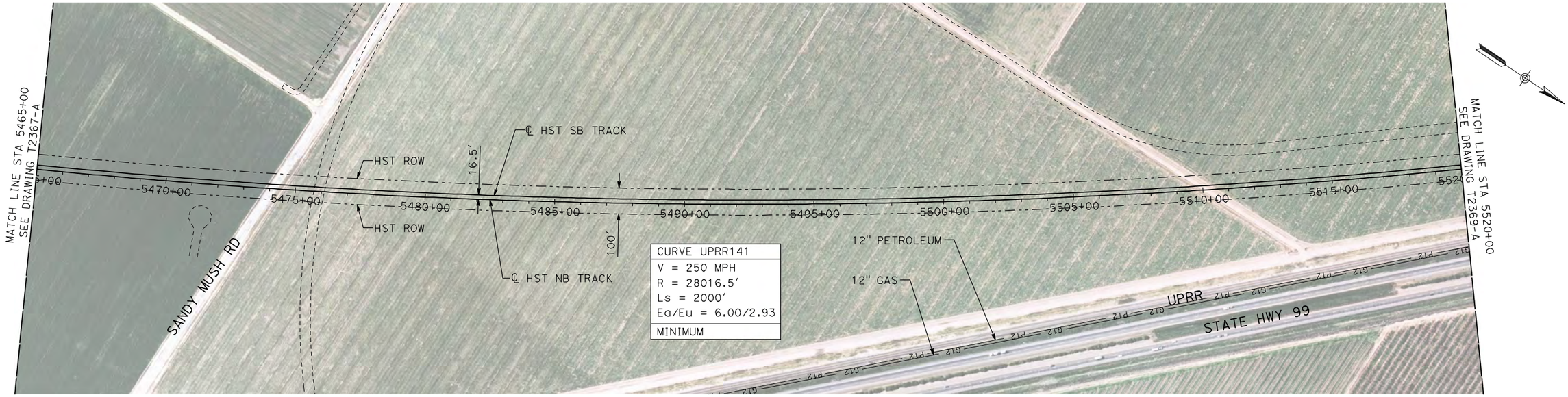
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5410+00 TO STA 5465+00

CONTRACT NO. HSR06-007
DRAWING NO. T2367-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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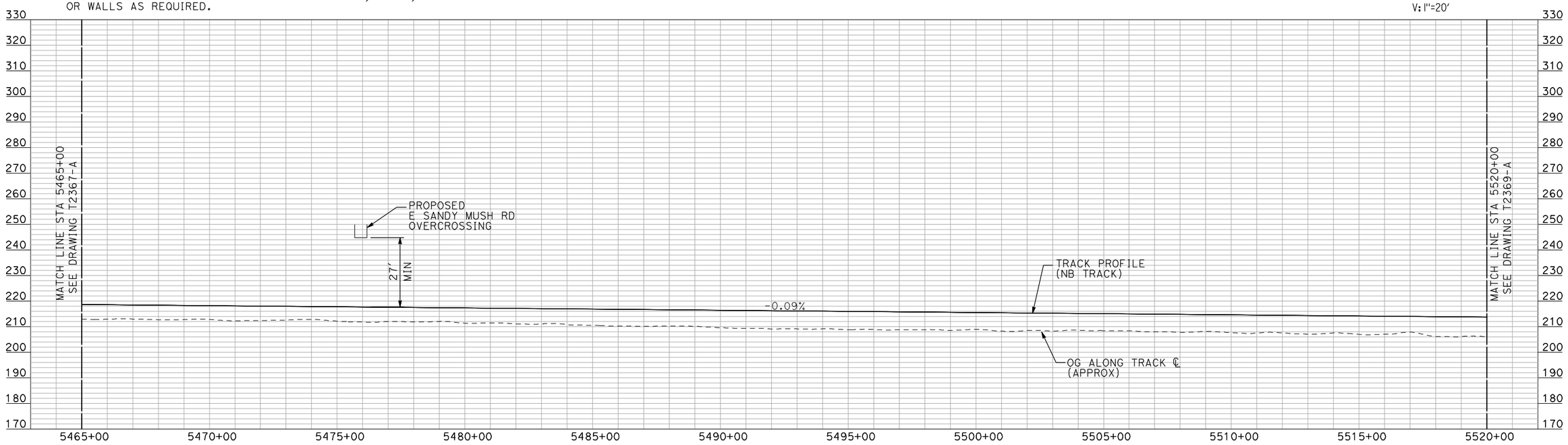
NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

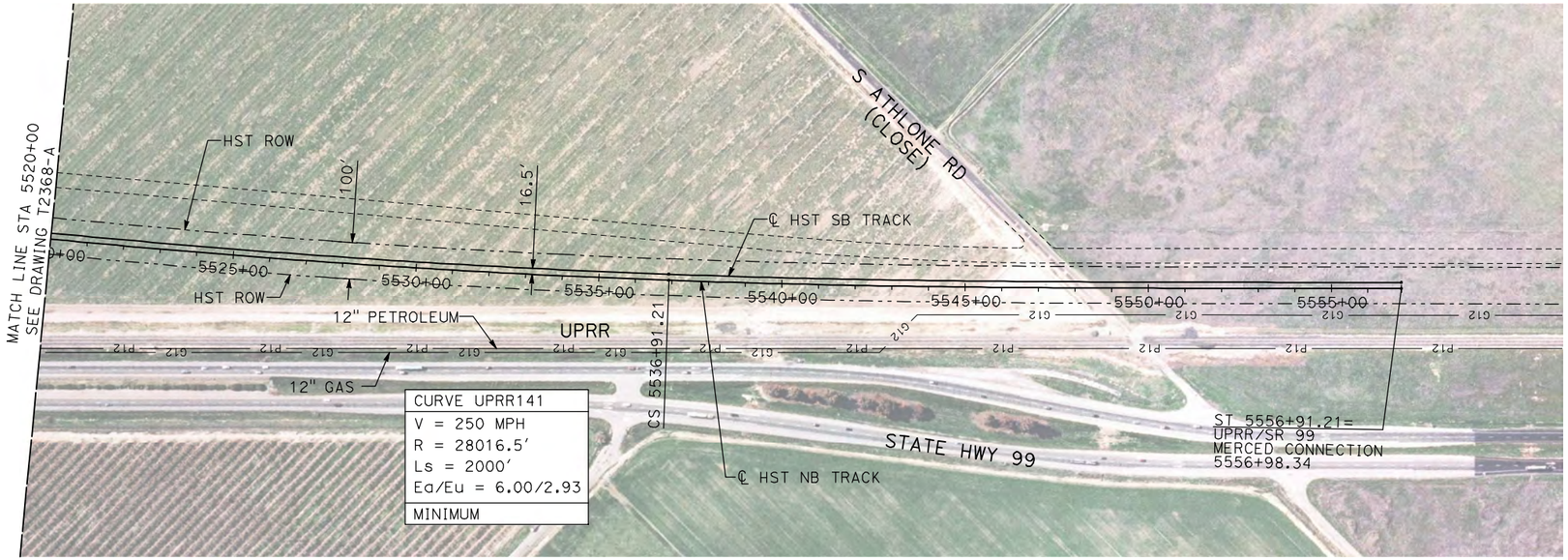
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5465+00 TO STA 5520+00

CONTRACT NO. HSR06-007
DRAWING NO. T2368-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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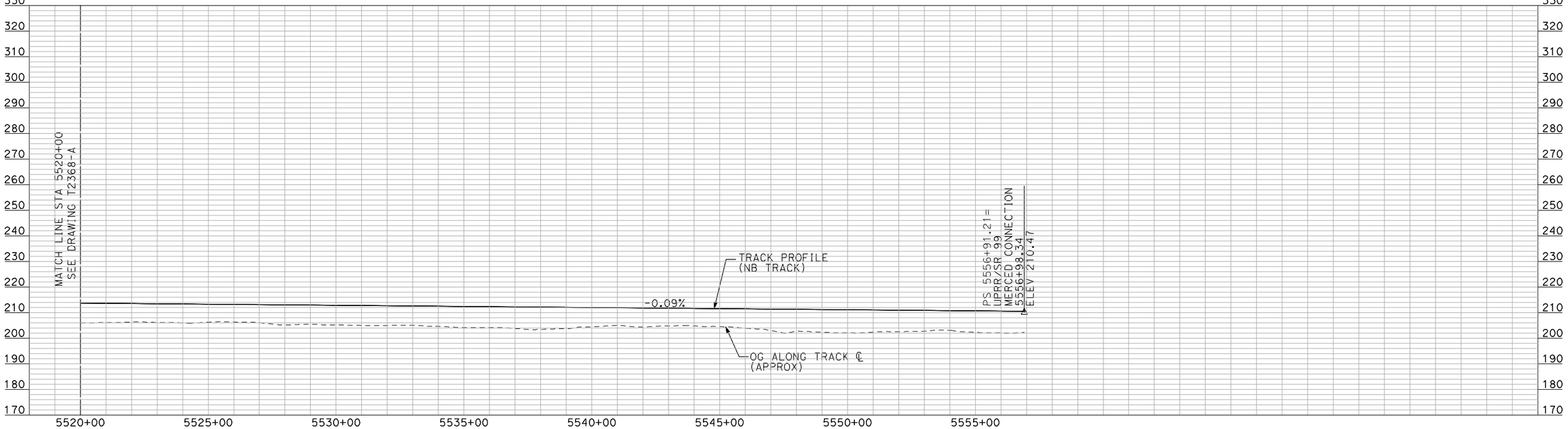
NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

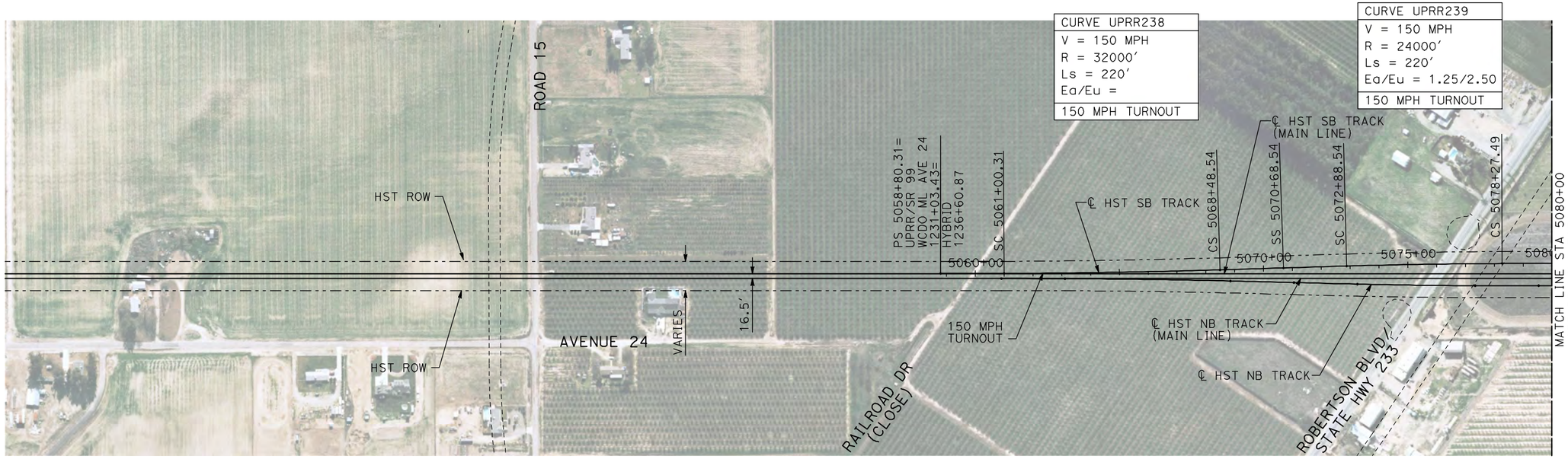
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5520+00 TO STA 5556+91.21

CONTRACT NO. HSR06-007
DRAWING NO. T2369-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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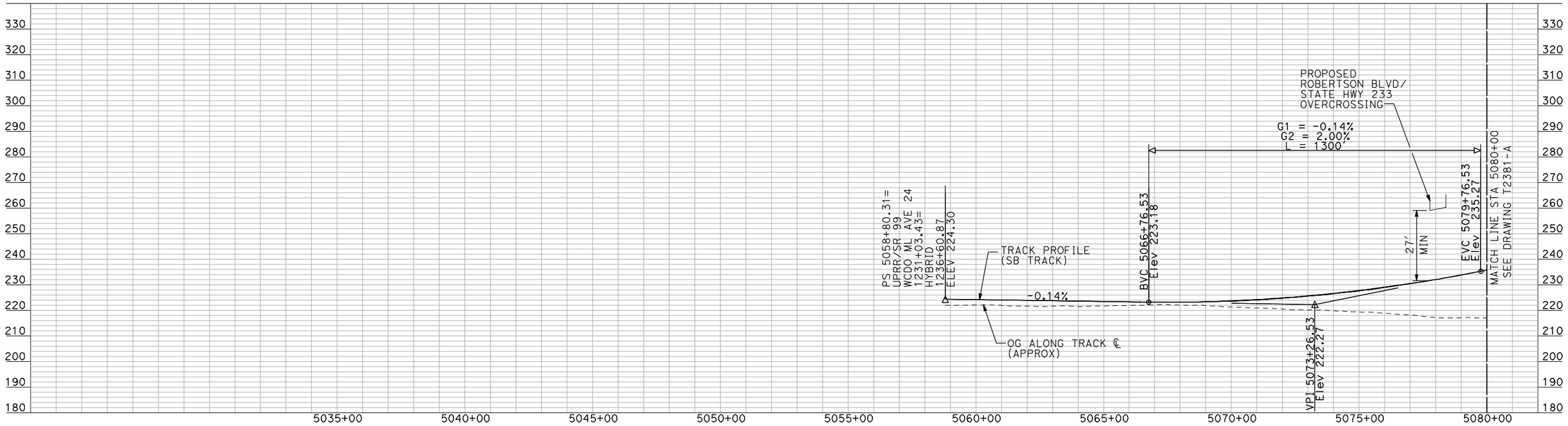
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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5058+80.31 TO STA 5080+00

CONTRACT NO. HSR06-007
DRAWING NO. T2380-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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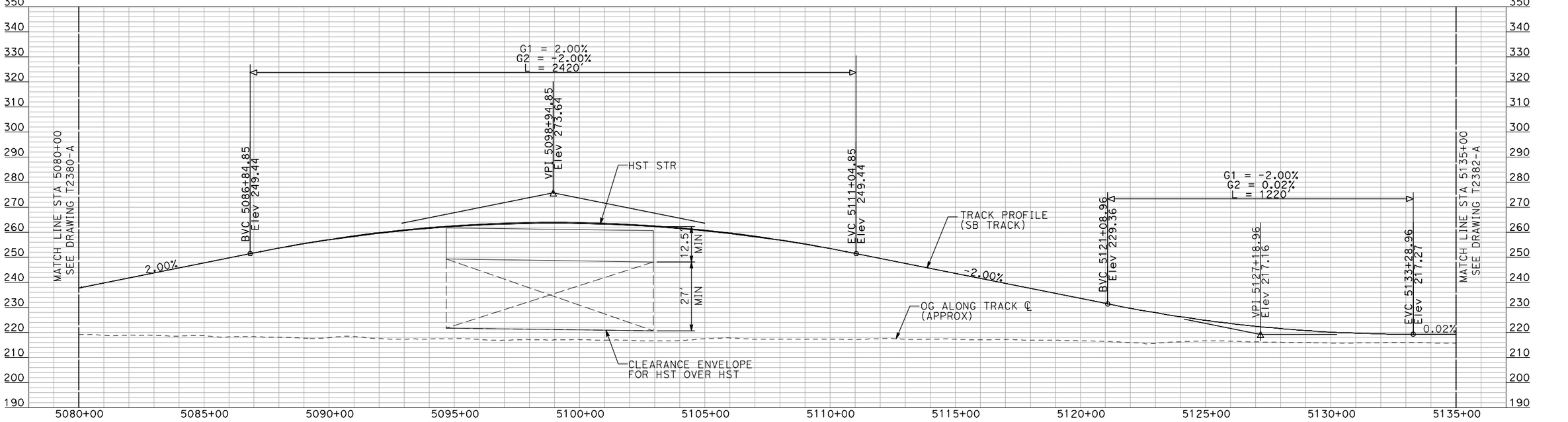
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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

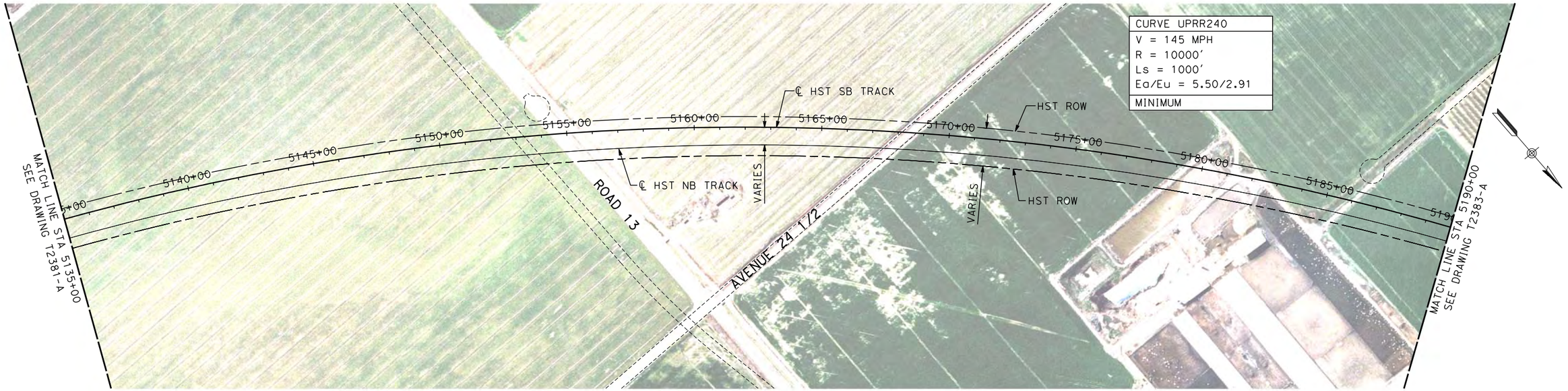
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5080+00 TO STA 5135+00

CONTRACT NO. HSR06-007
DRAWING NO. T2381-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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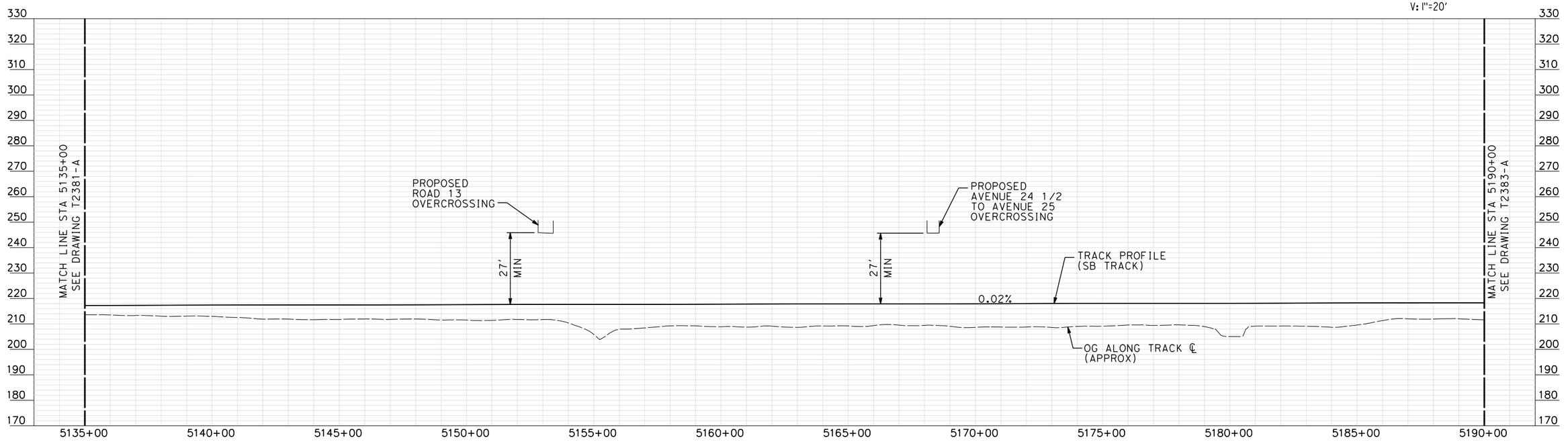
PLAN

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200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			ROADWAY REALIGNMENT

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811

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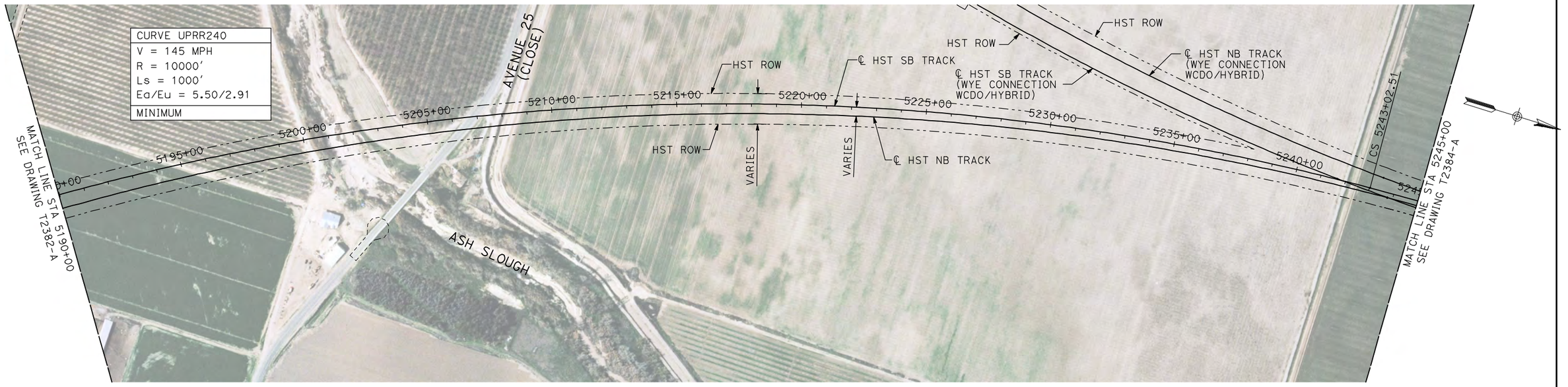
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5135+00 TO STA 5190+00

CONTRACT NO. HSR06-007
DRAWING NO. T2382-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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shieldsa



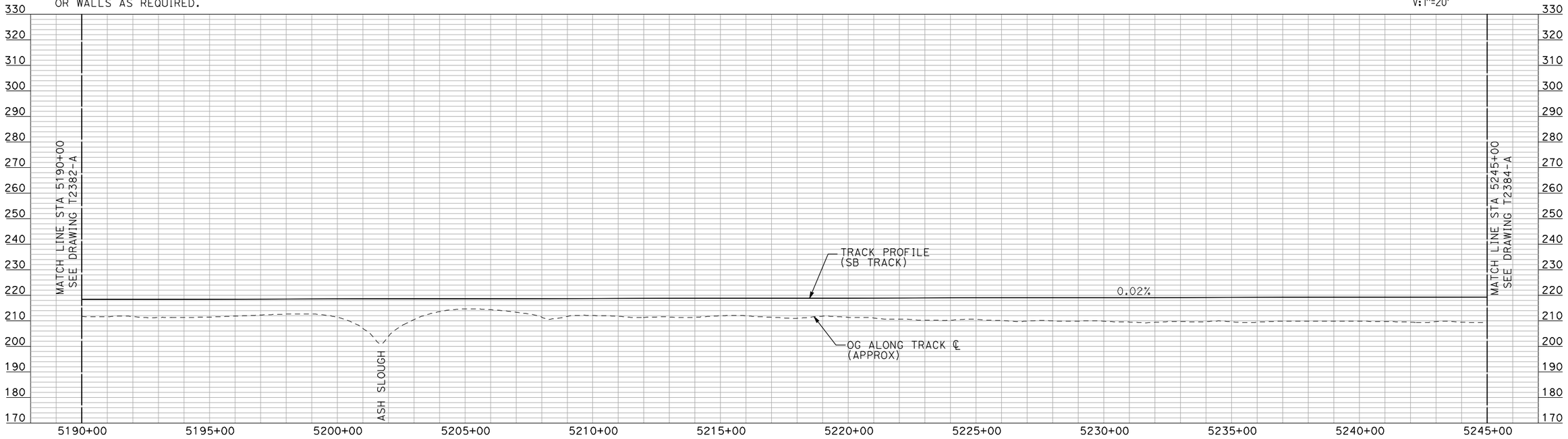
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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Sacramento, CA 95811
CH2MHILL

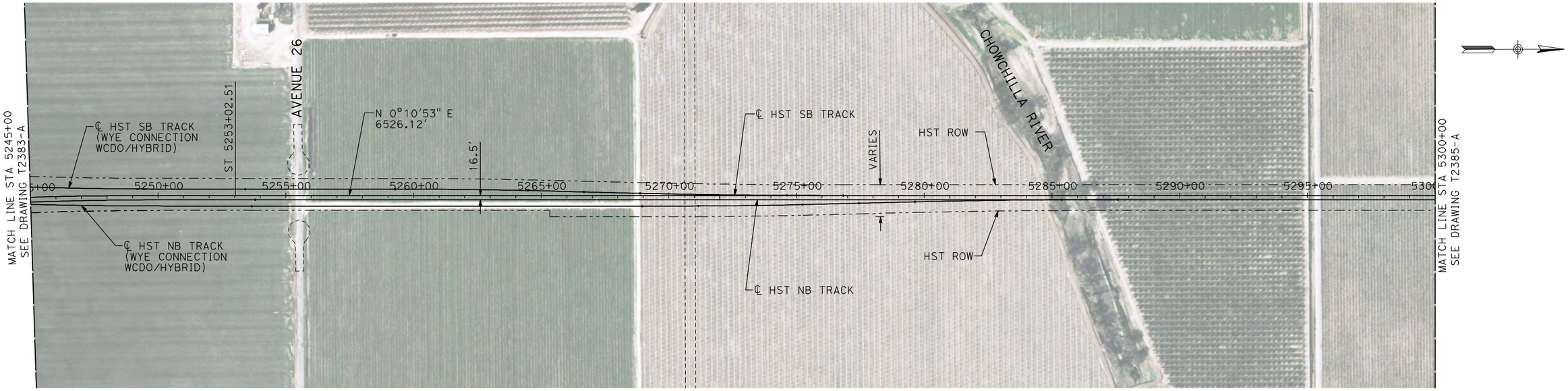
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5190+00 TO STA 5245+00

CONTRACT NO. HSR06-007
DRAWING NO. T2383-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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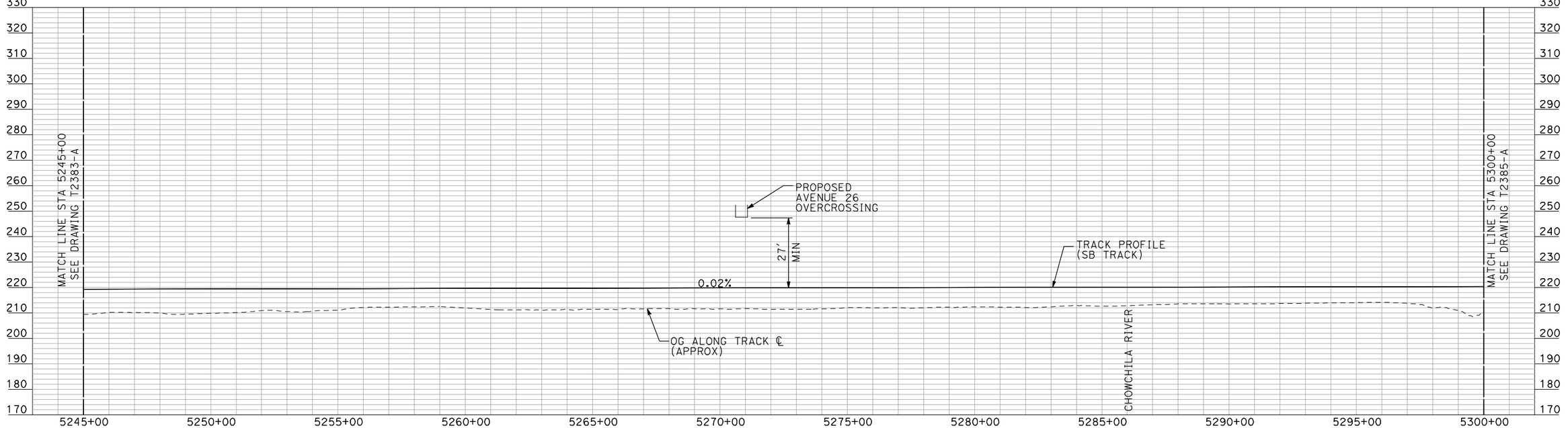
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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

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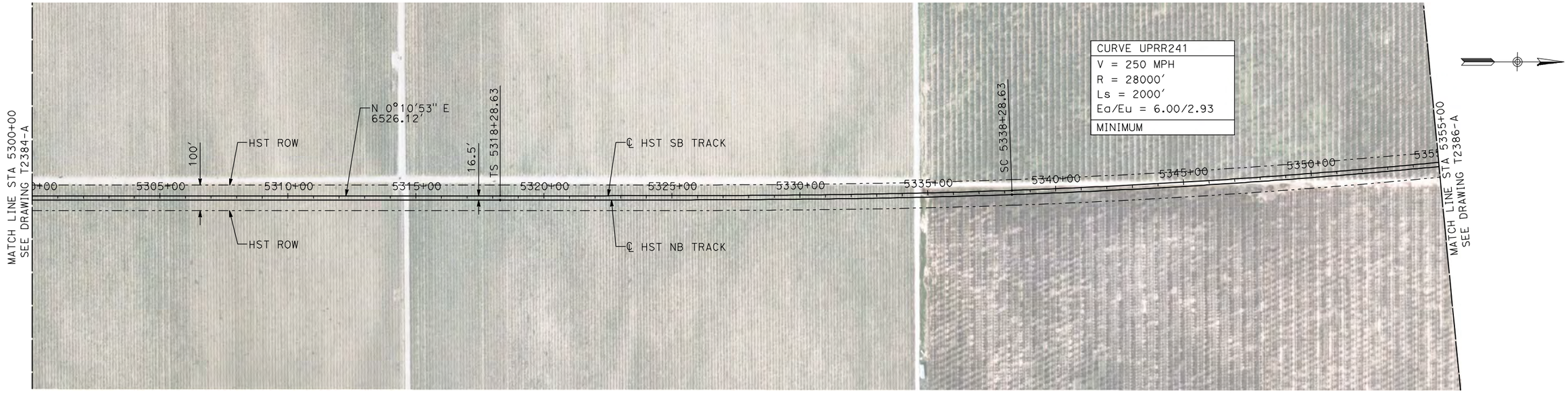
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5245+00 TO STA 5300+00

CONTRACT NO. HSR06-007
DRAWING NO. T2384-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
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Sacramento, CA 95811
CH2MHILL

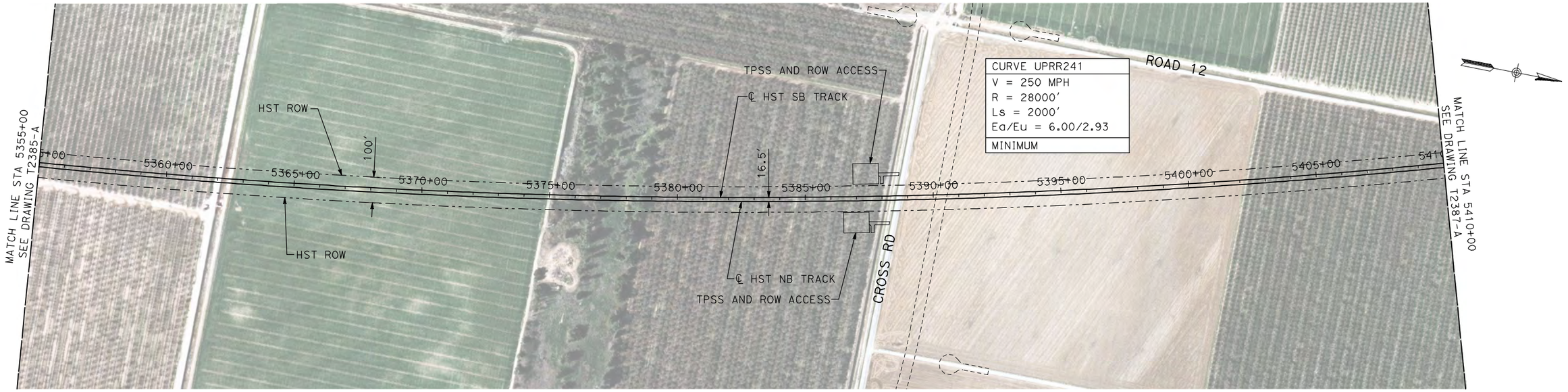
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5300+00 TO STA 5355+00

CONTRACT NO. HSR06-007
DRAWING NO. T2385-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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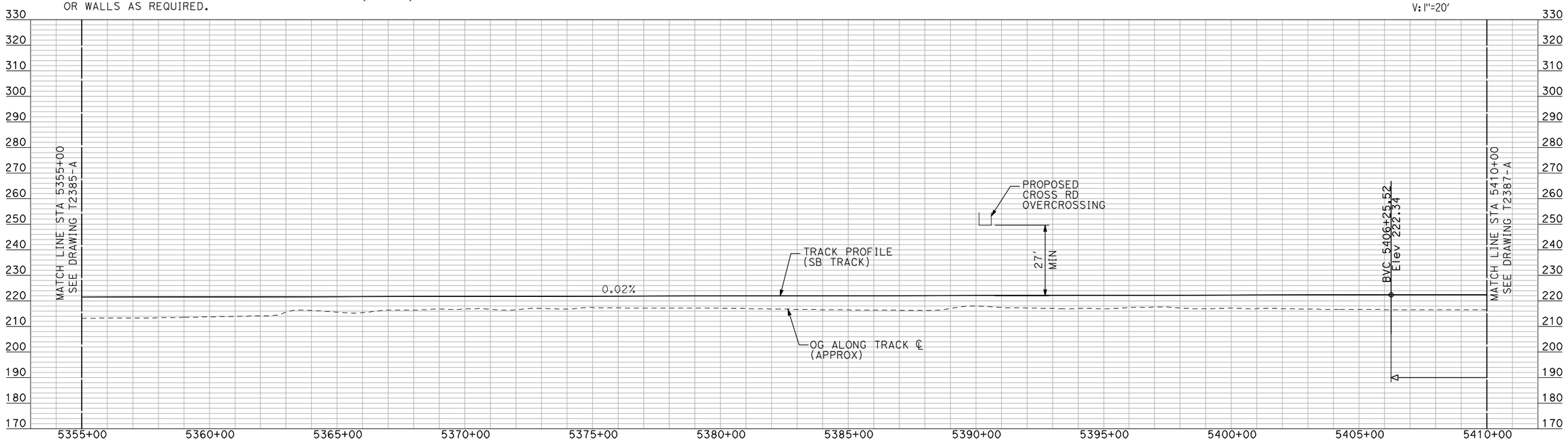
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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
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Technical Services, Inc.
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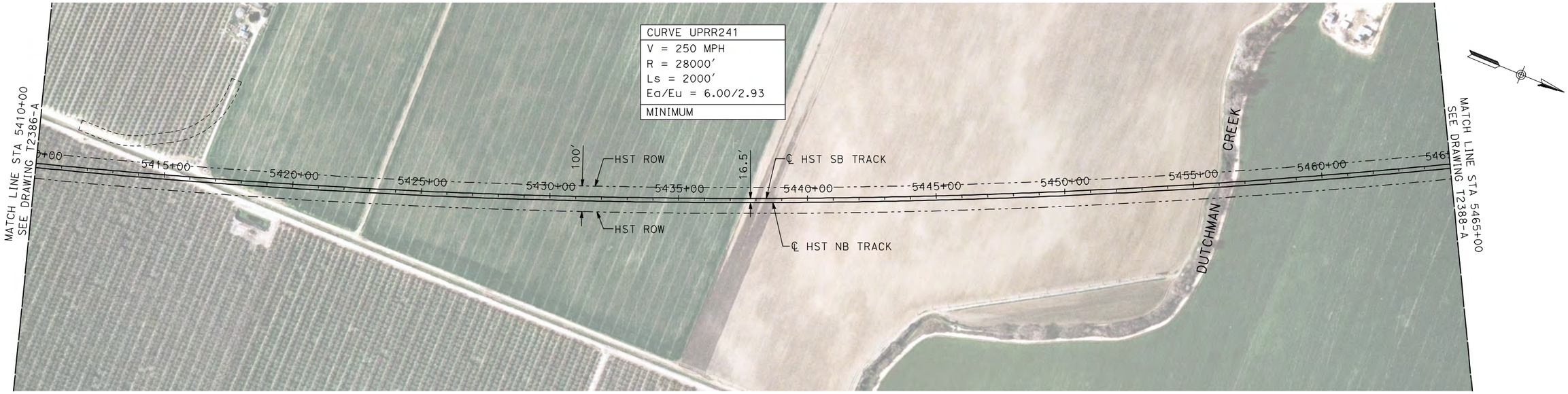
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5355+00 TO STA 5410+00

CONTRACT NO. HSR06-007
DRAWING NO. T2386-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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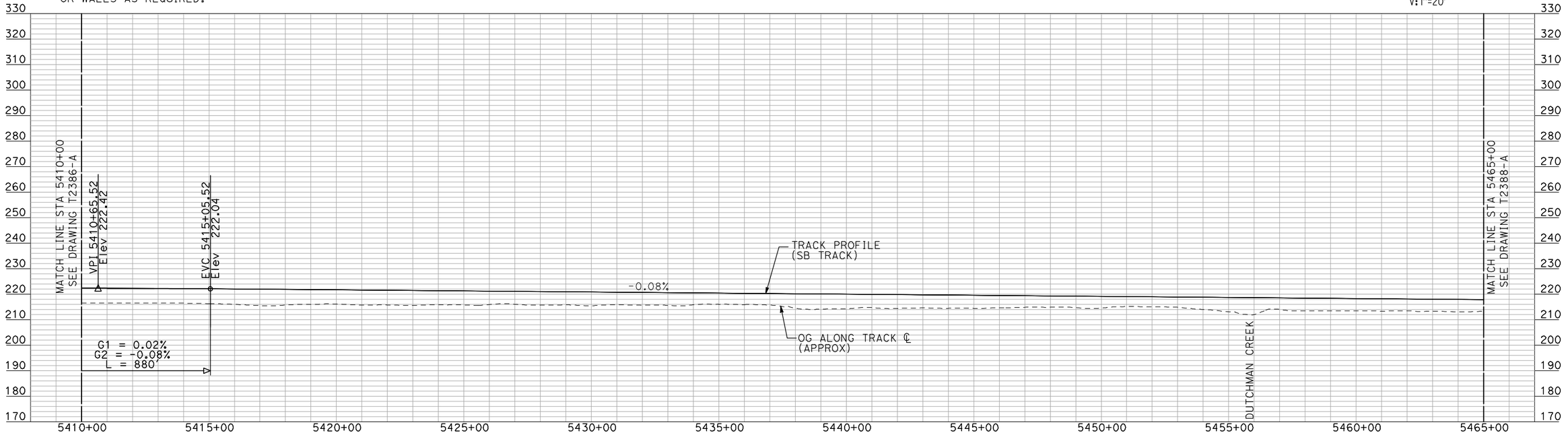
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PLAN

200 0 200 400
H: 1"=200'

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PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
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DATE: 07/20/2011

RECORD SET
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AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

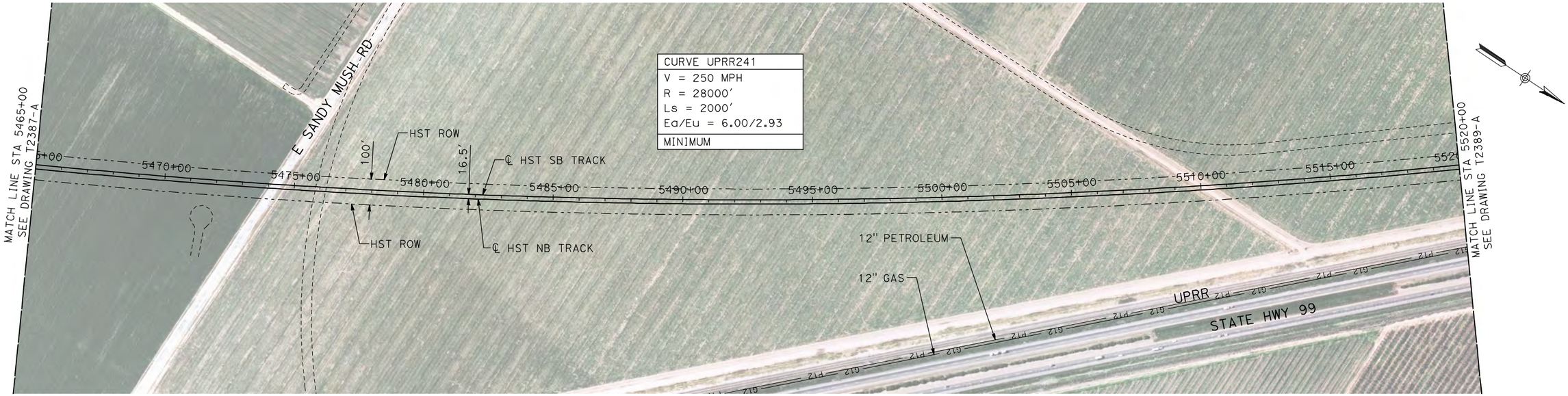
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5410+00 TO STA 5465+00

CONTRACT NO. HSR06-007
DRAWING NO. T2387-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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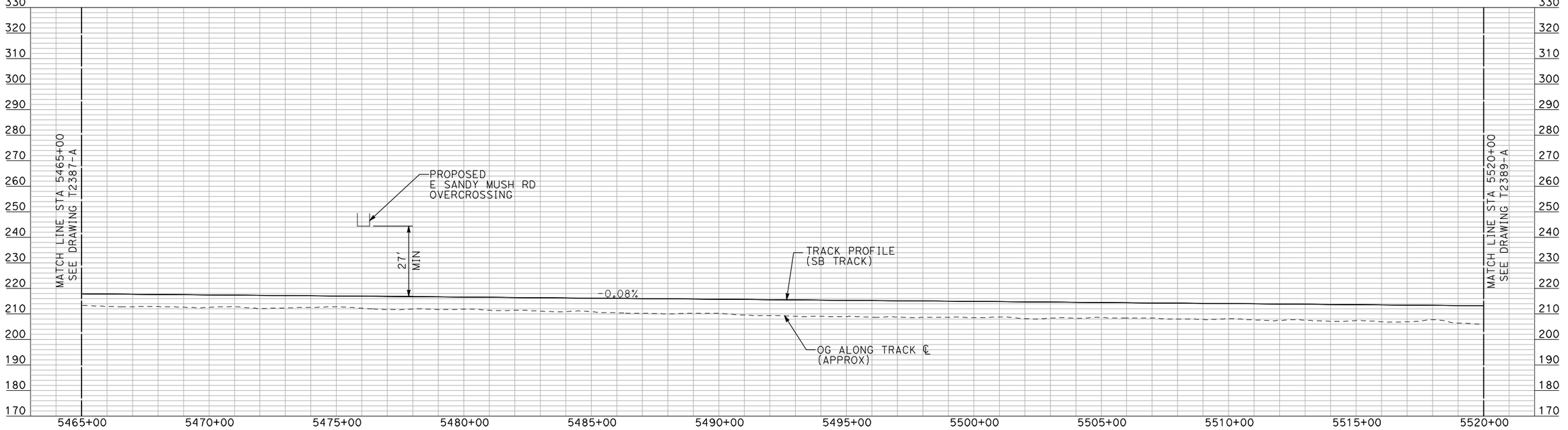
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PLAN

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PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
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CH2MHILL

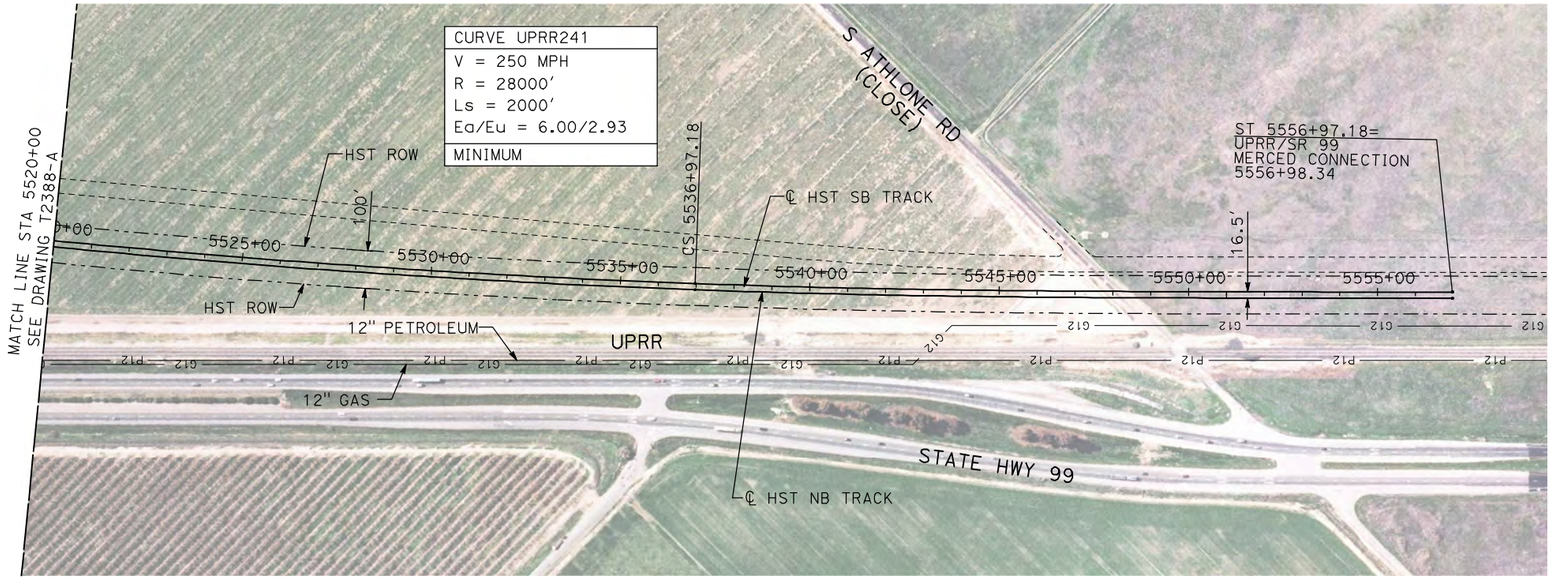
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5465+00 TO STA 5520+00

CONTRACT NO. HSR06-007
DRAWING NO. T2388-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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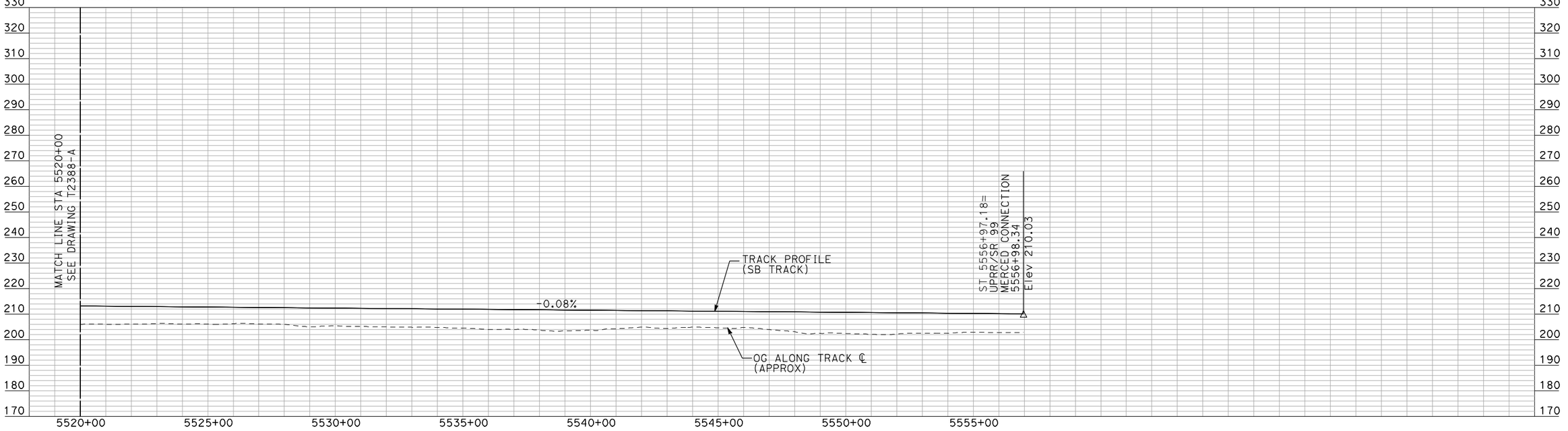
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PLAN

H: 1"=200'

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PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
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AECOM Technical Services, Inc.
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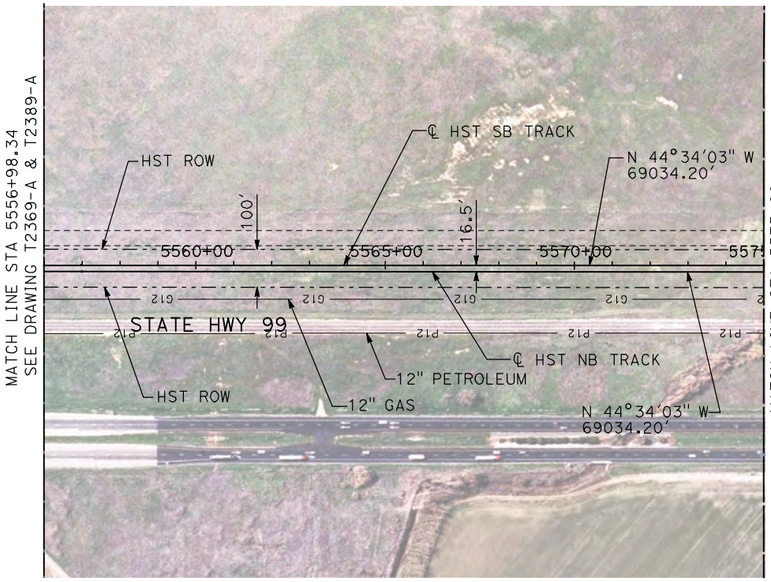
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5520+00 TO STA 5556+97.18

CONTRACT NO. HSR06-007
DRAWING NO. T2389-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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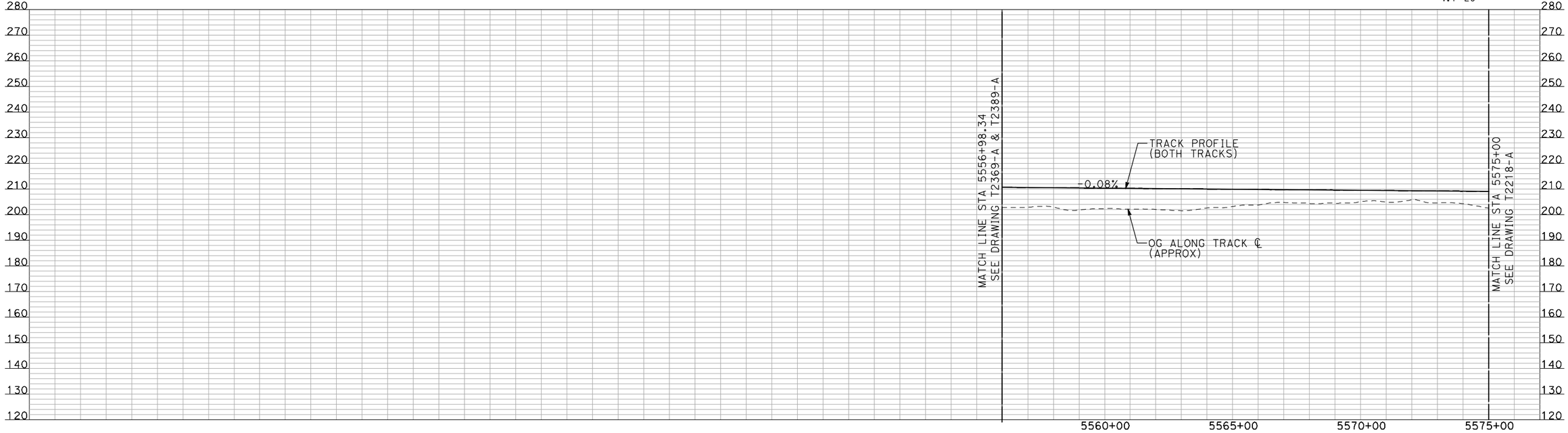


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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

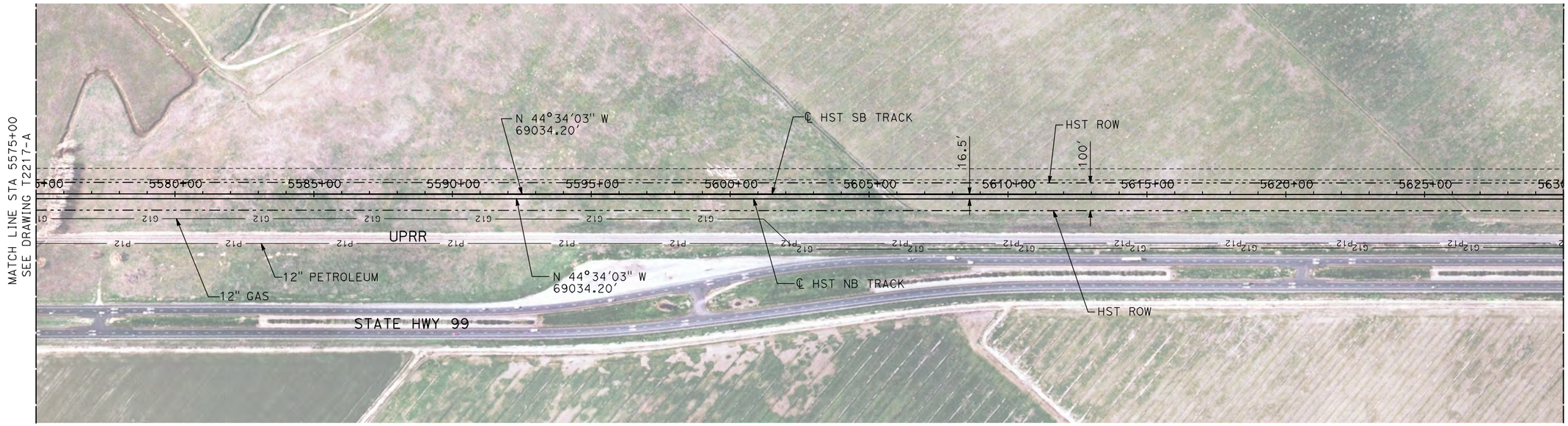
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5556+98.34 TO STA 5575+00

CONTRACT NO. HSR06-007
DRAWING NO. T2217-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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machadoe



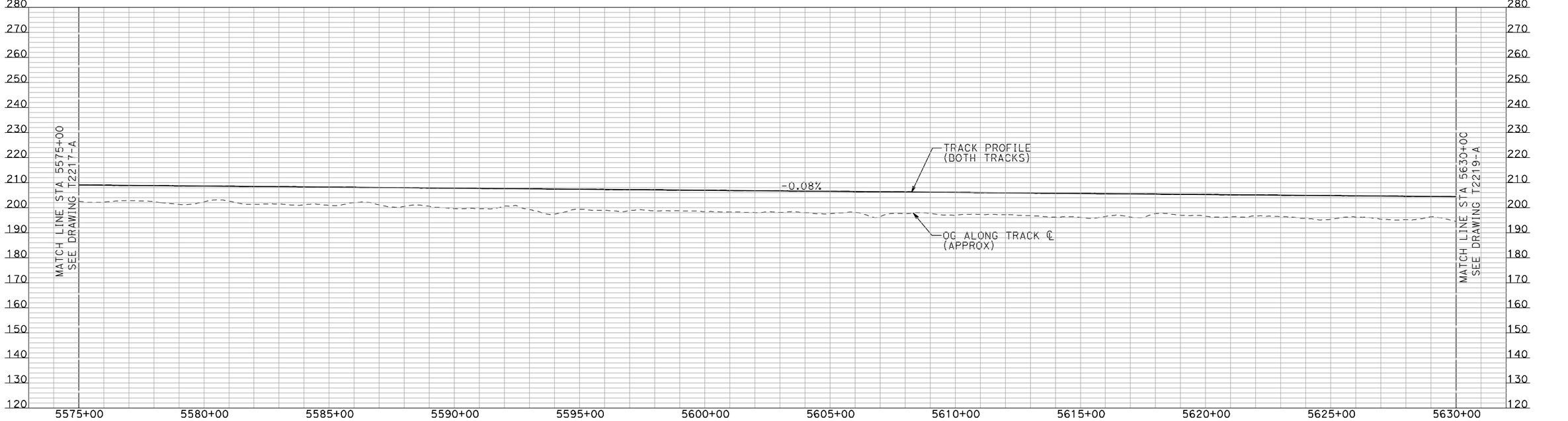
NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
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NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

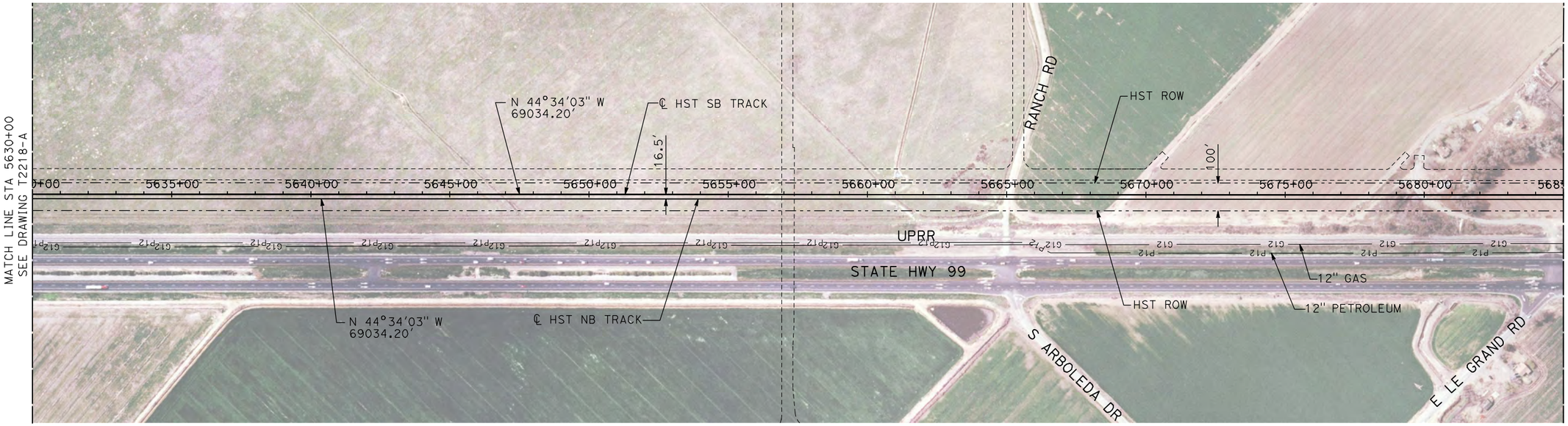
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5575+00 TO STA 5630+00

CONTRACT NO. HSR06-007
DRAWING NO. T2218-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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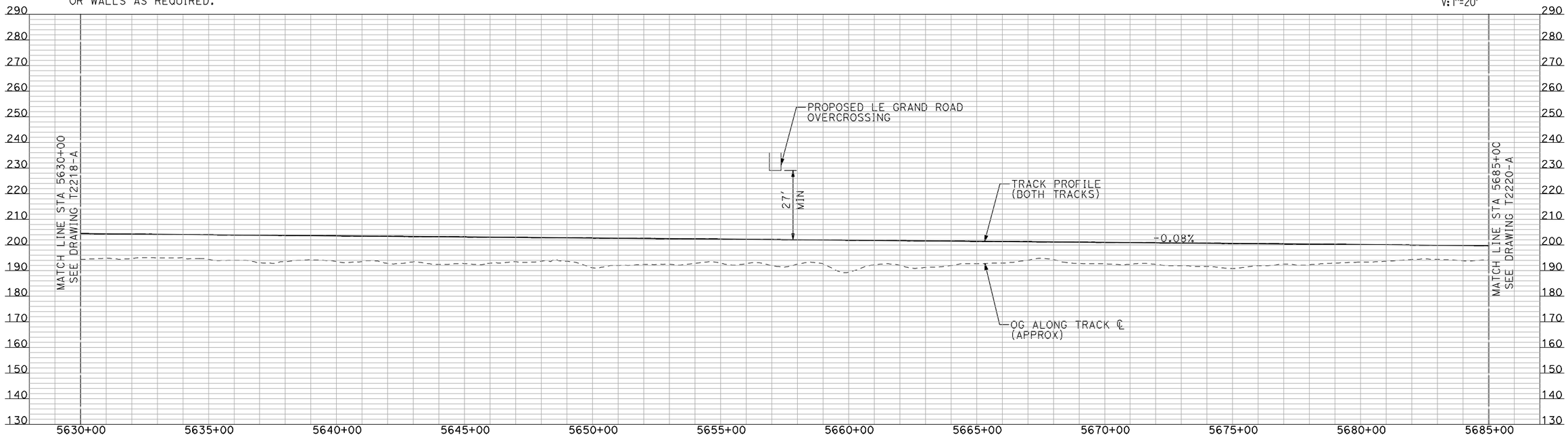
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PLAN

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
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IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
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NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

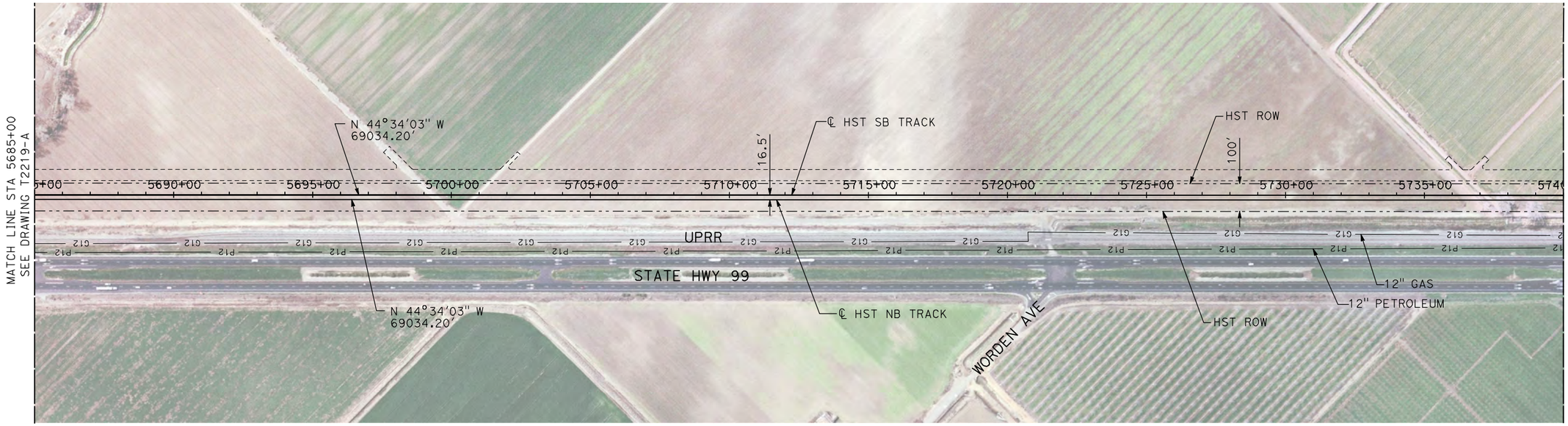
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5630+00 TO STA 5685+00

CONTRACT NO. HSR06-007
DRAWING NO. T2219-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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machadoe



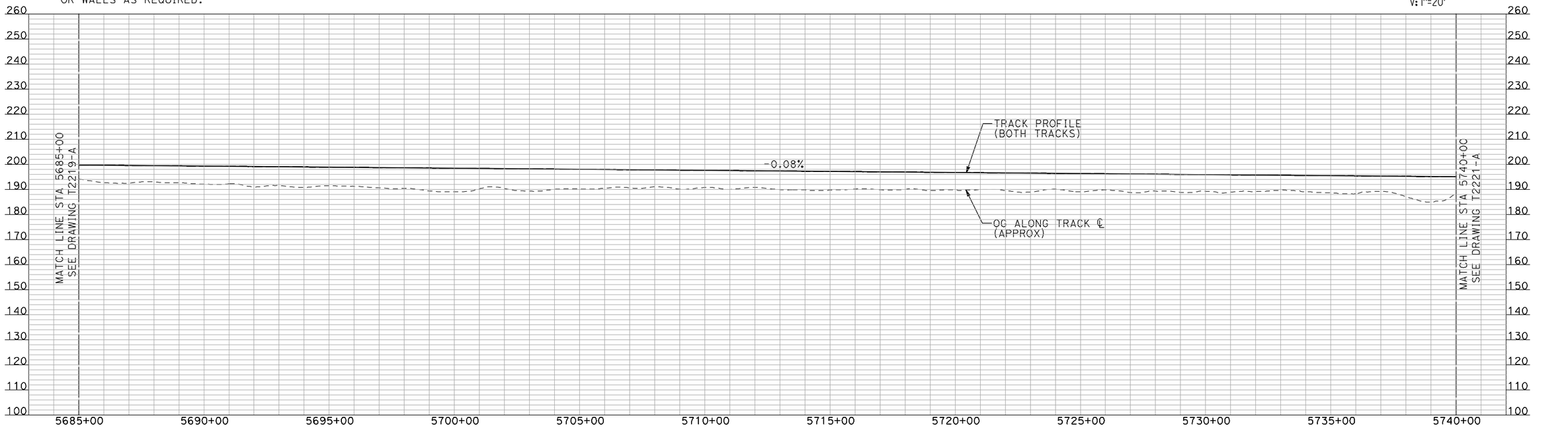
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PLAN

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
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NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

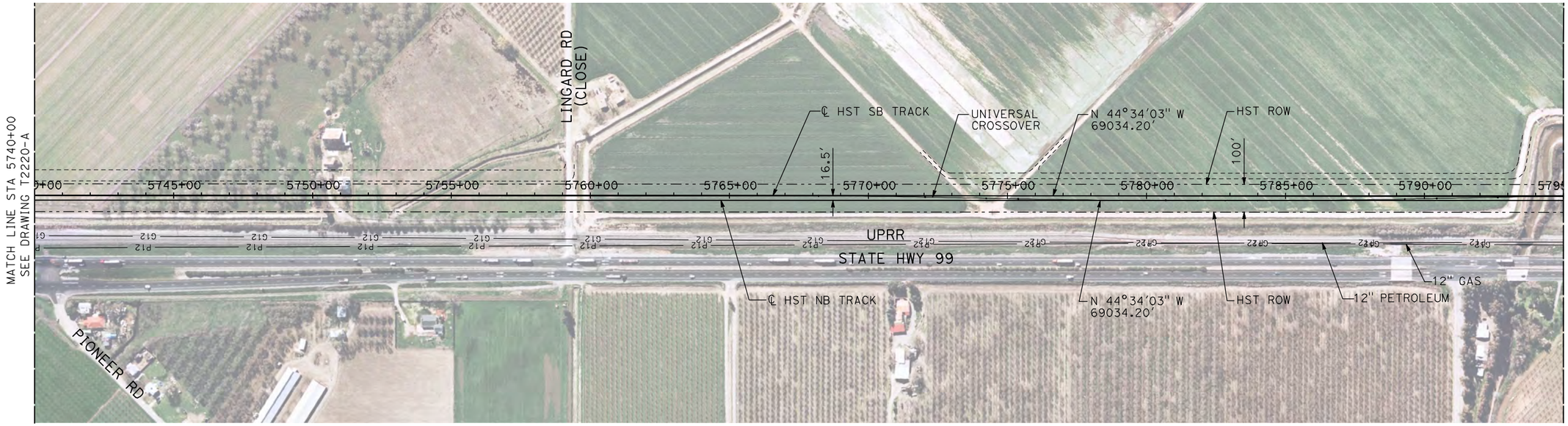
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5685+00 TO STA 5740+00

CONTRACT NO. HSR06-007
DRAWING NO. T2220-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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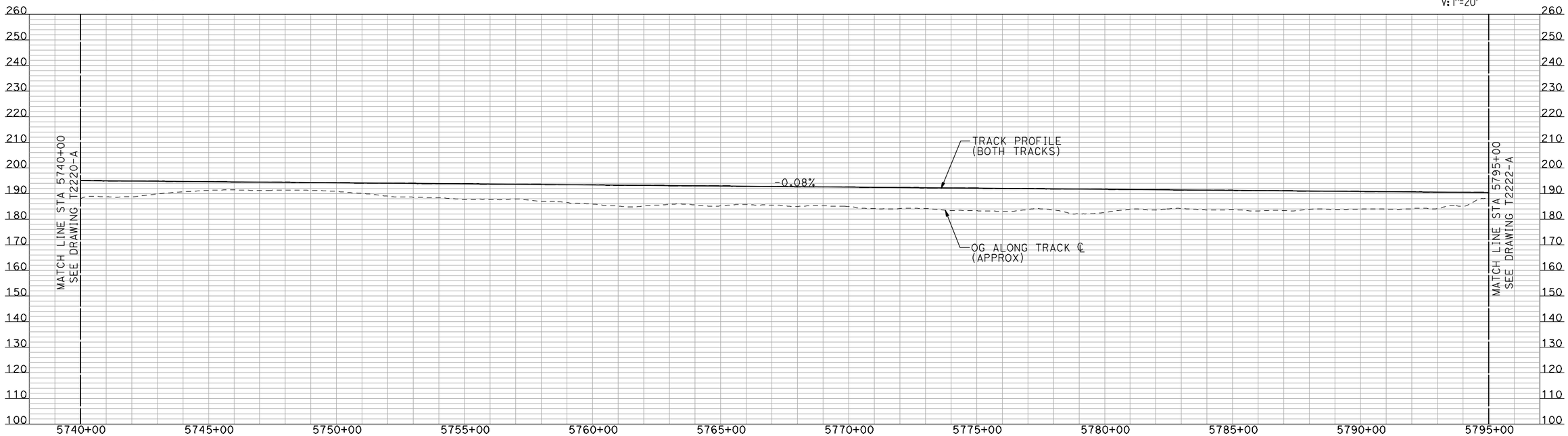


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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
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NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

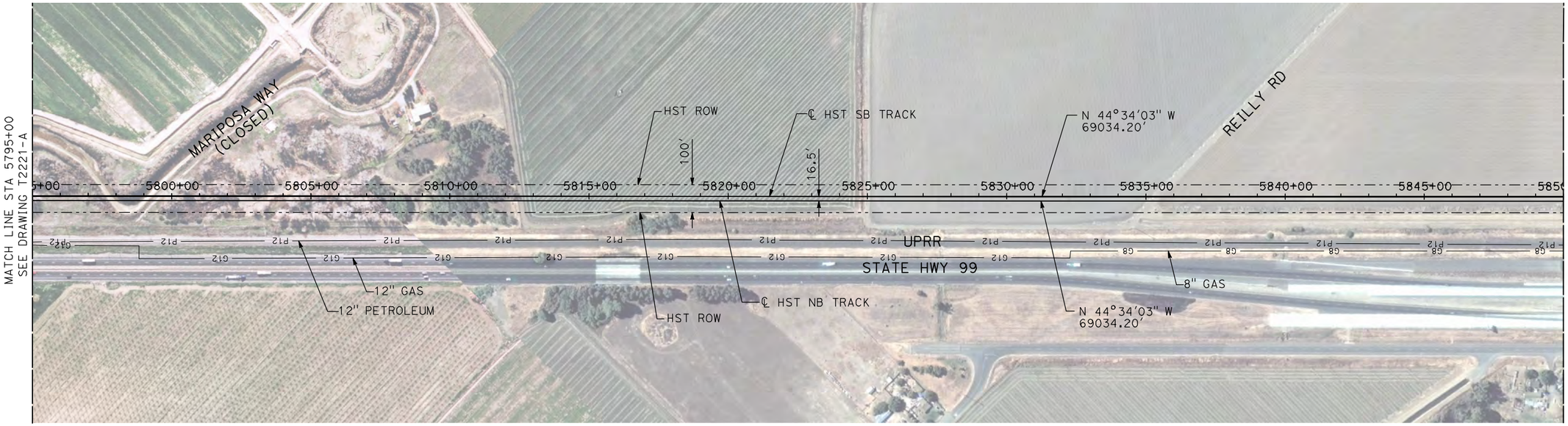
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5740+00 TO STA 5795+00

CONTRACT NO. HSR06-007
DRAWING NO. T2221-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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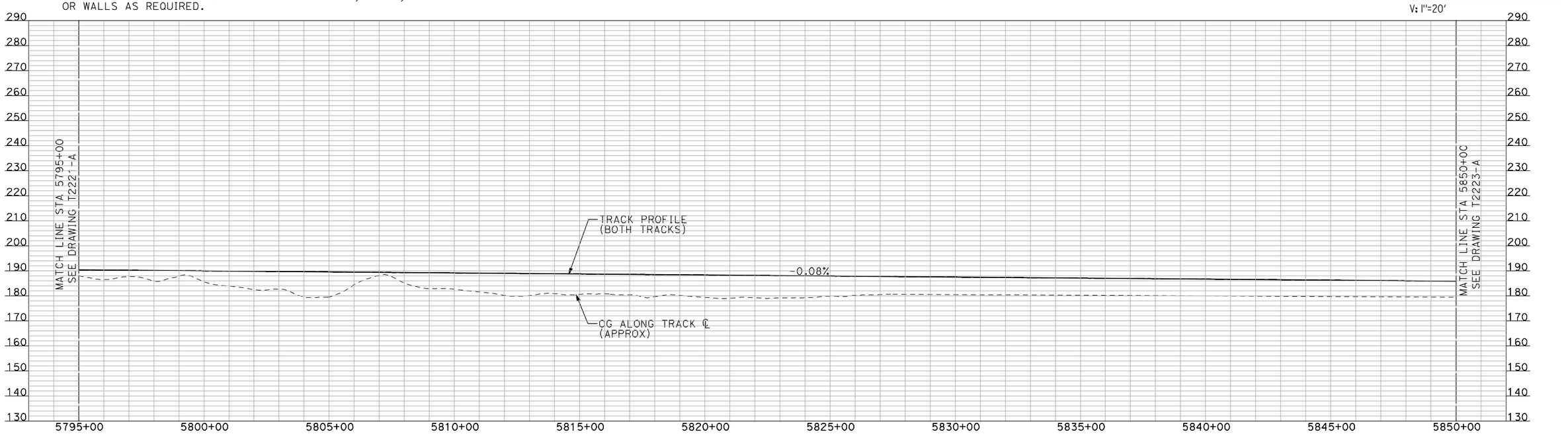
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PLAN

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V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
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IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
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AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

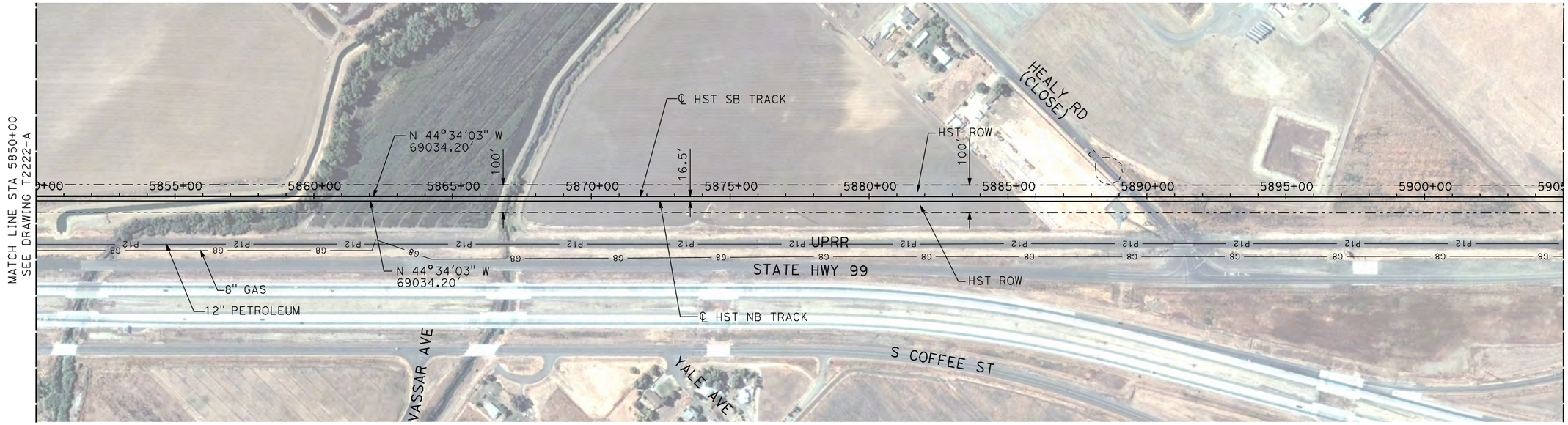
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5795+00 TO STA 5850+00

CONTRACT NO. HSR06-007
DRAWING NO. T2222-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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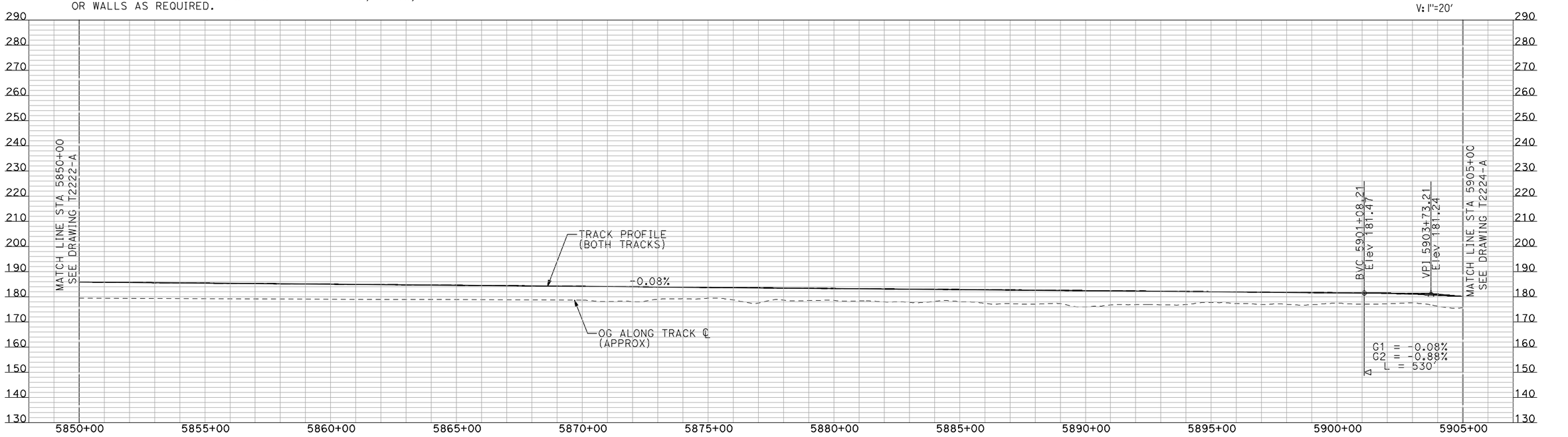
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PLAN

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
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AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

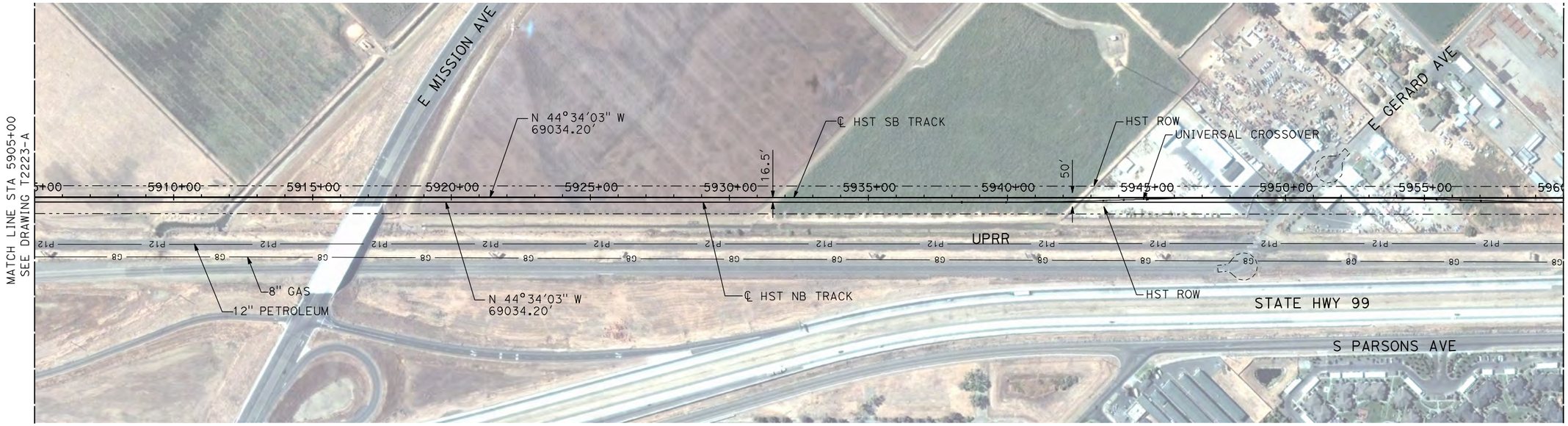
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5850+00 TO STA 5905+00

CONTRACT NO. HSR06-007
DRAWING NO. T2223-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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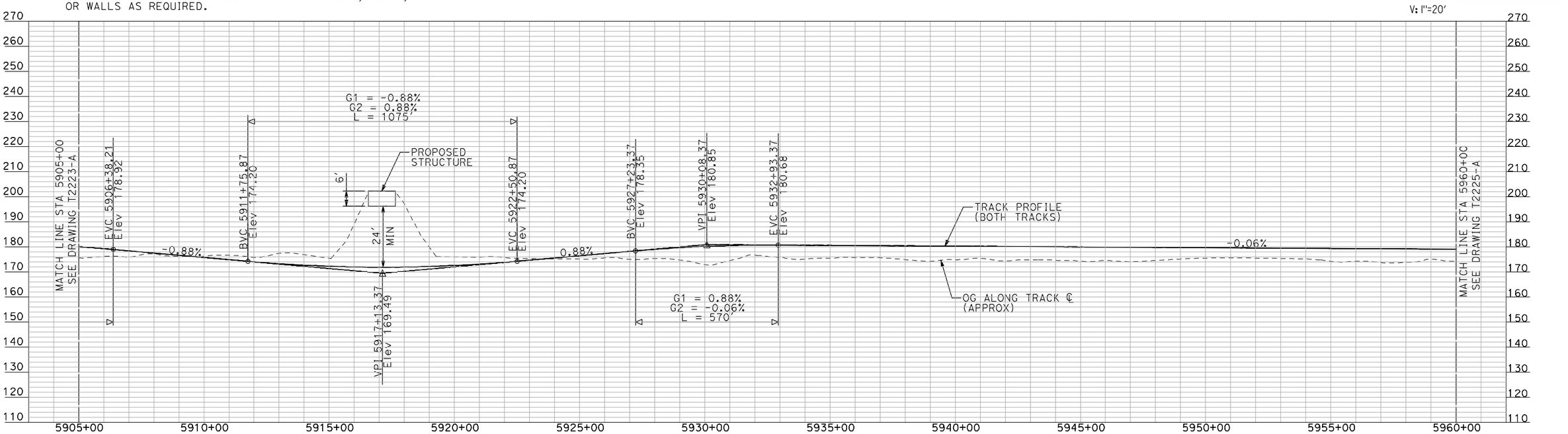
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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
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NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

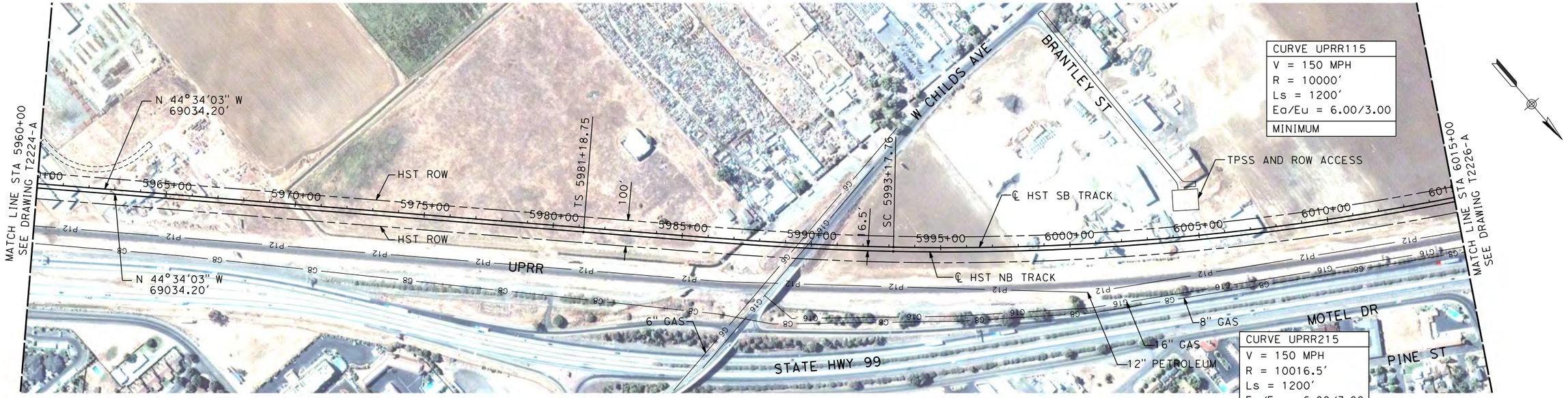
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5905+00 TO STA 5960+00

CONTRACT NO. HSR06-007
DRAWING NO. T2224-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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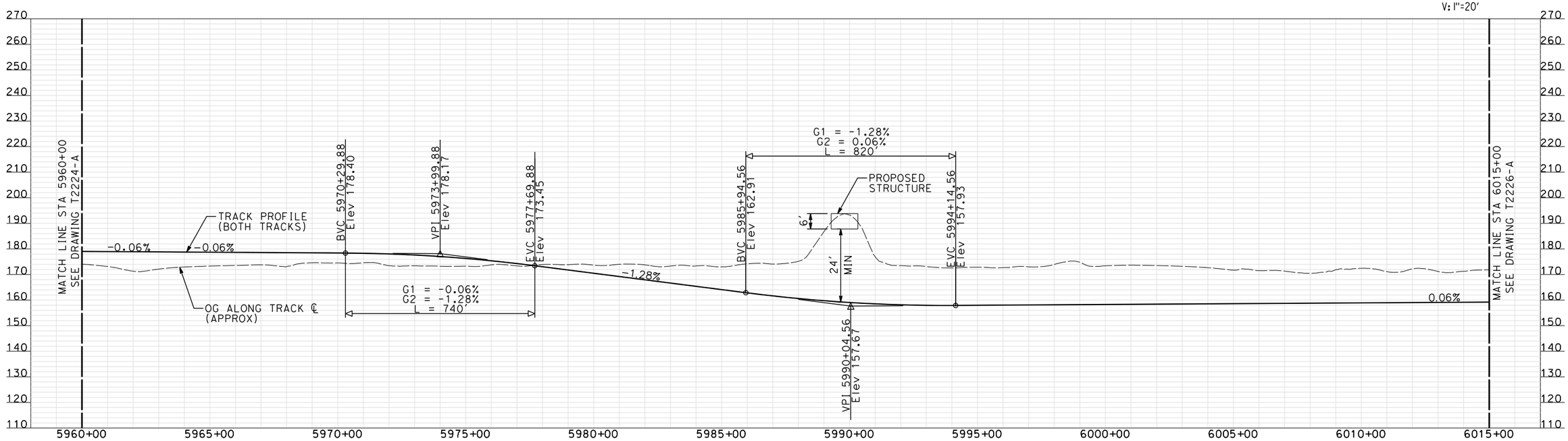
PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'

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PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

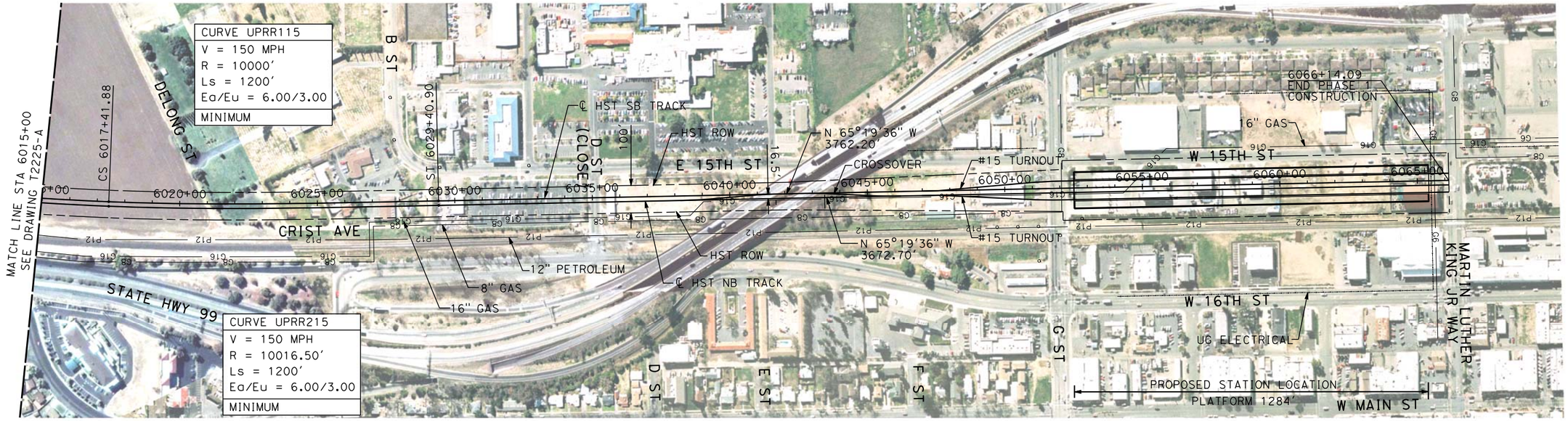
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5960+00 TO STA 6015+00

CONTRACT NO. HSR06-007
DRAWING NO. T2225-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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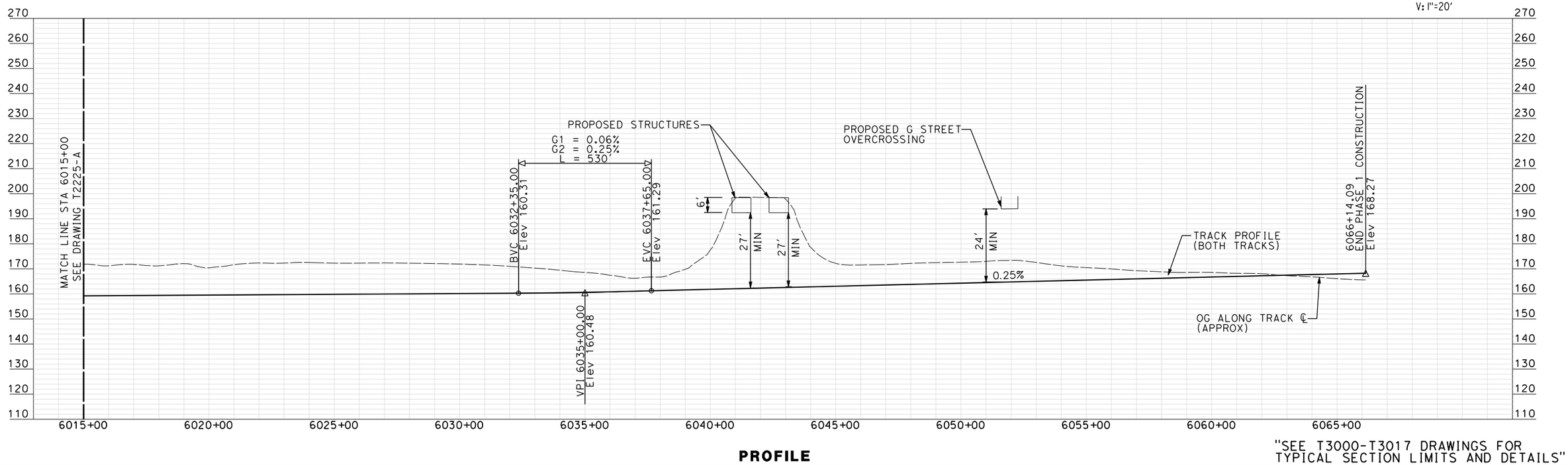


PLAN

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200 0 200 400
H: 1"=200'

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PROFILE

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CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

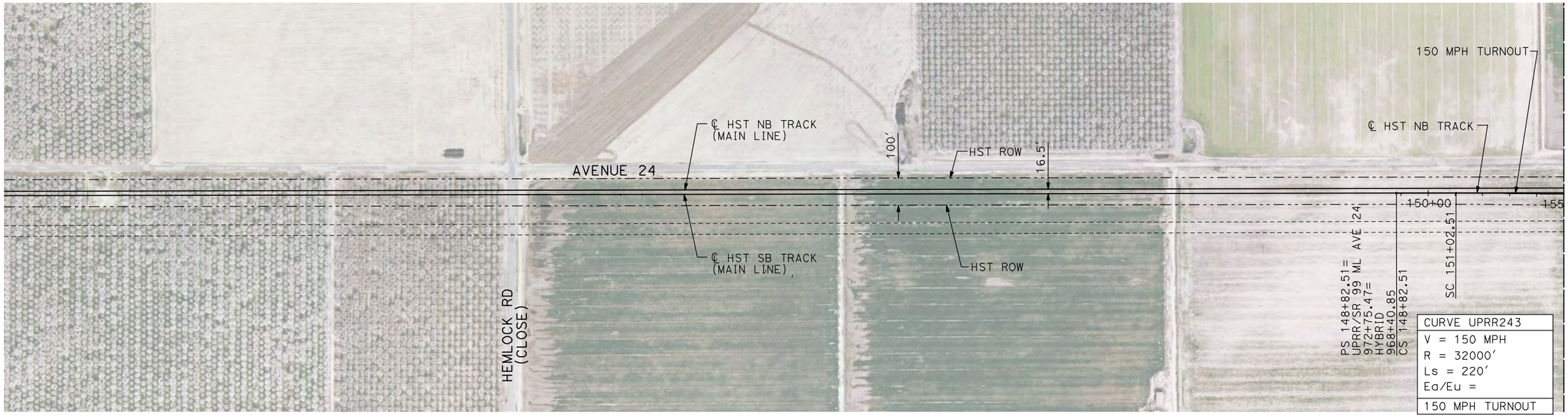
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 6015+00 TO STA 6066+14.09

CONTRACT NO. HSR06-007
DRAWING NO. T2226-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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shieldsa



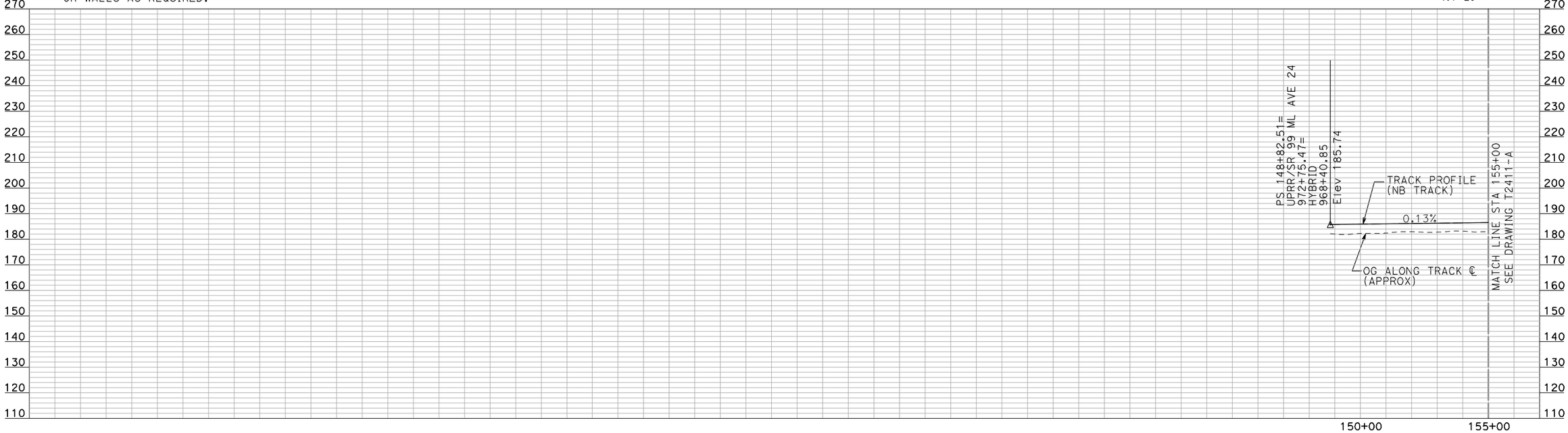
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PLAN

H: 1"=200'

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PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

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AECOM Technical Services, Inc.
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CH2MHILL

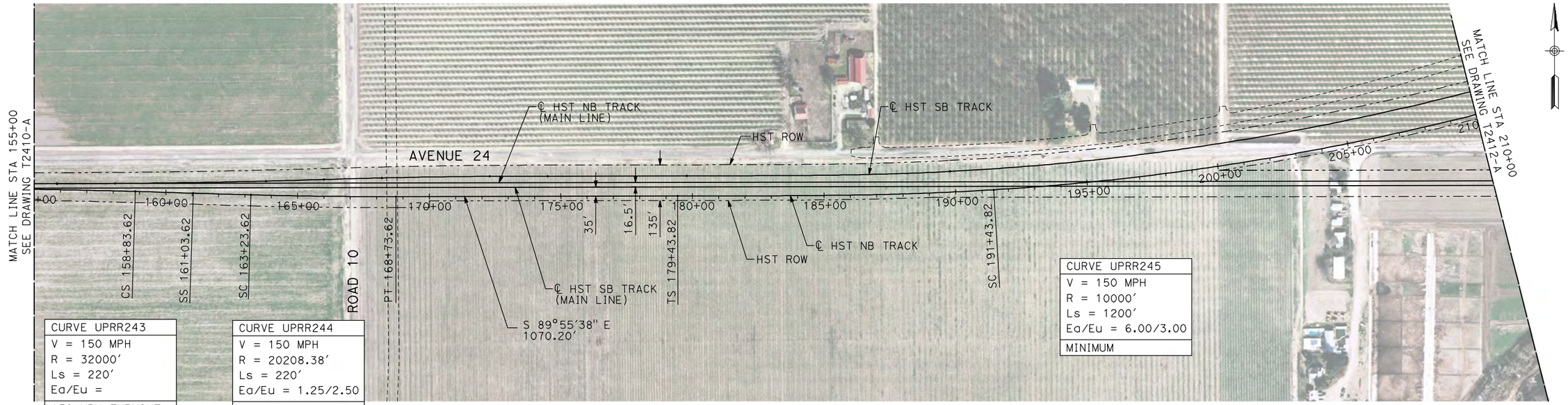
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 148+82.51 TO STA 155+00

CONTRACT NO. HSR06-007
DRAWING NO. T2410-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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CURVE UPRR243
V = 150 MPH
R = 32000'
Ls = 220'
Ea/Eu =
150 MPH TURNOUT

CURVE UPRR244
V = 150 MPH
R = 20208.38'
Ls = 220'
Ea/Eu = 1.25/2.50
150 MPH TURNOUT

CURVE UPRR245
V = 150 MPH
R = 10000'
Ls = 1200'
Ea/Eu = 6.00/3.00
MINIMUM

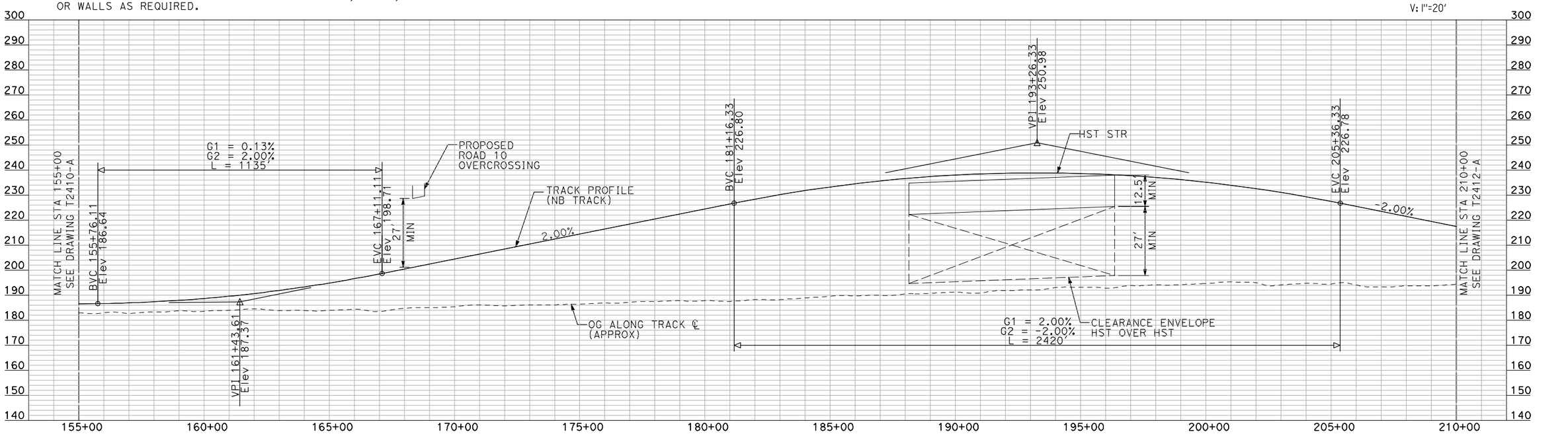
NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

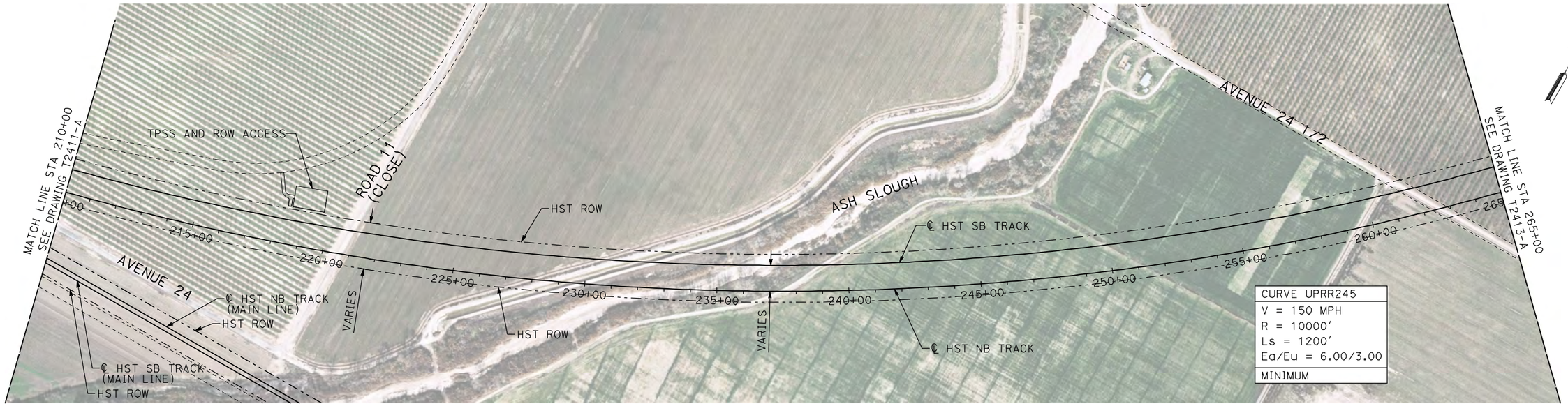
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 155+00 TO STA 210+00

CONTRACT NO. HSR06-007
DRAWING NO. T2411-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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machadoe



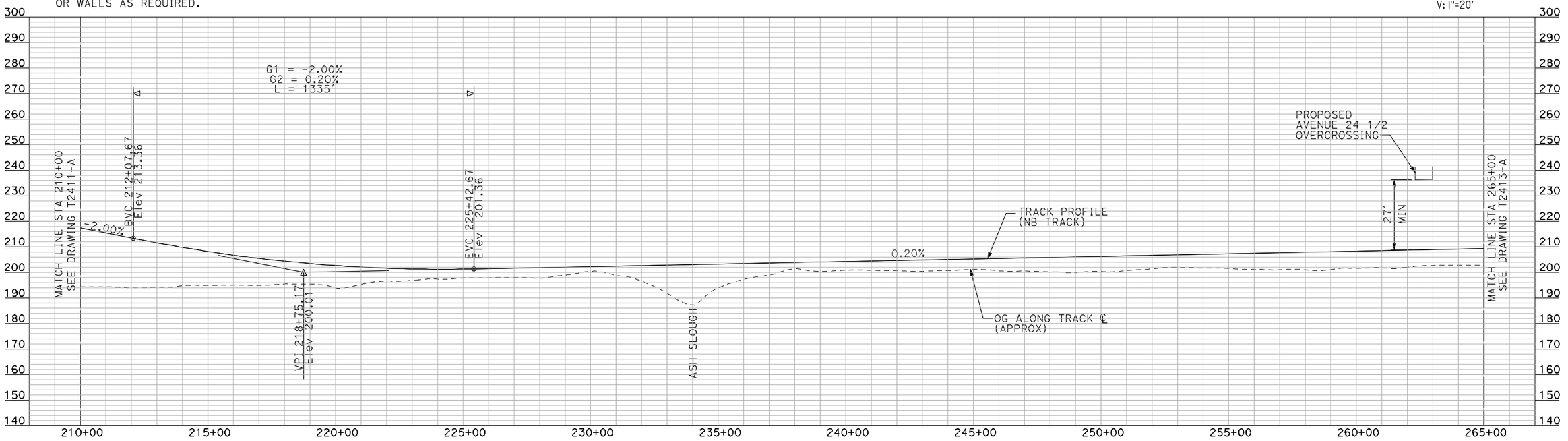
NOTES:

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PLAN

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

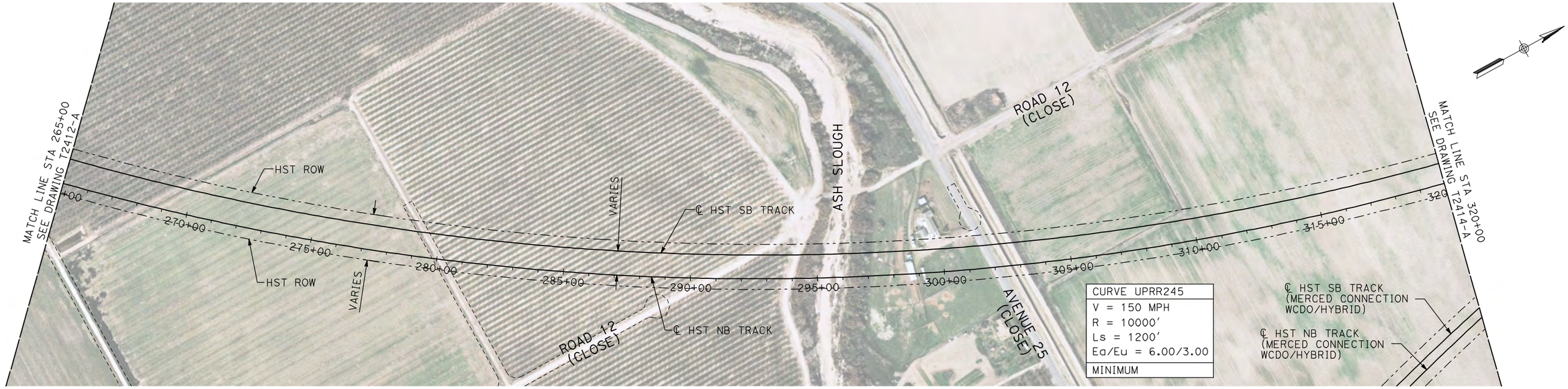
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 210+00 TO STA 265+00

CONTRACT NO. HSR06-007
DRAWING NO. T2412-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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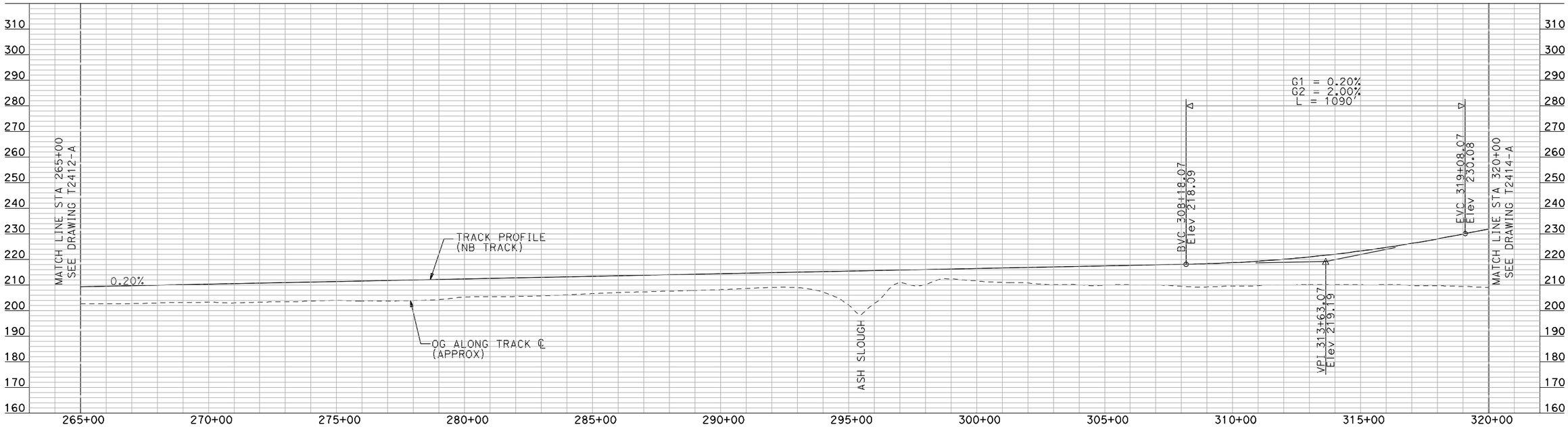
NOTES:

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PLAN

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Sacramento, CA 95811

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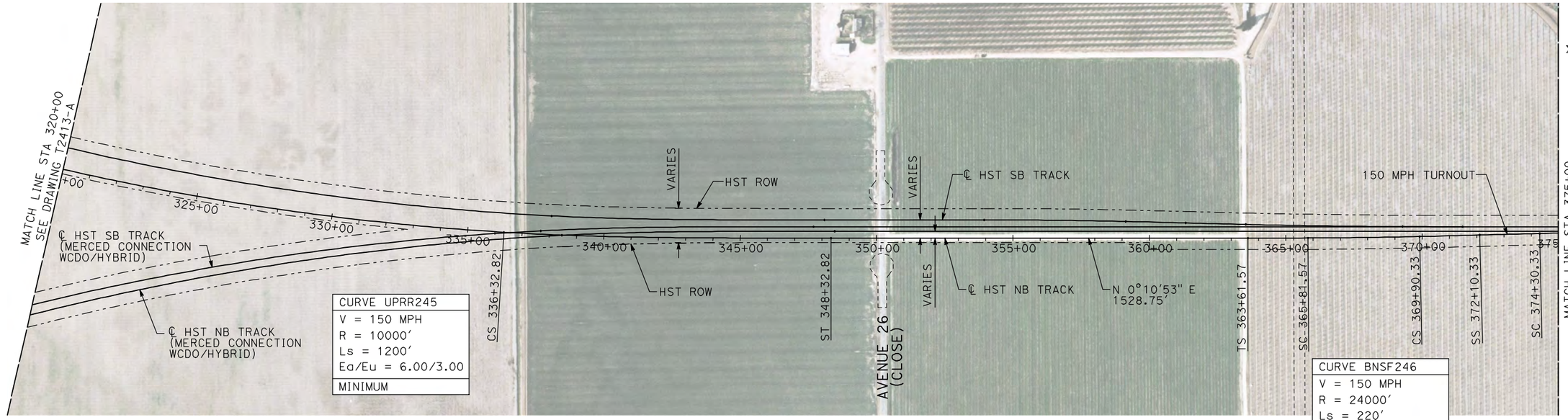
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 265+00 TO STA 320+00

CONTRACT NO. HSR06-007
DRAWING NO. T2413-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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CURVE UPRR245
V = 150 MPH
R = 10000′
Ls = 1200′
Ea/Eu = 6.00/3.00
MINIMUM

CURVE BNSF246
V = 150 MPH
R = 24000′
Ls = 220′
Ea/Eu = 1.25/2.50
150 MPH TURNOUT

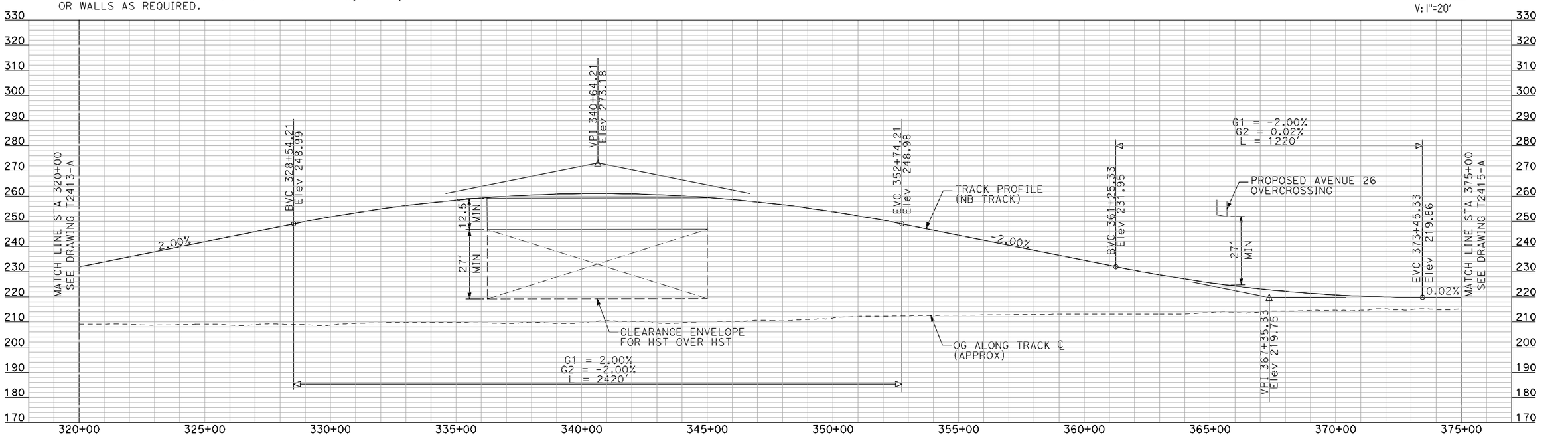
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PLAN

200 0 200 400
H: 1"=200′

20 0 20 40
V: 1"=20′



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

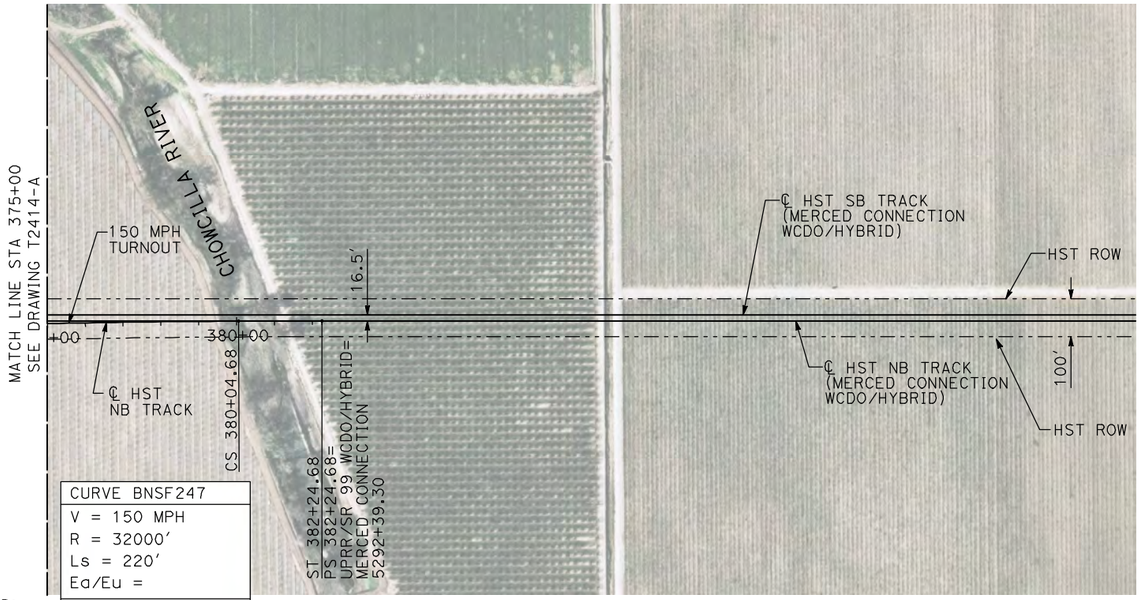
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 320+00 TO STA 375+00

CONTRACT NO. HSR06-007
DRAWING NO. T2414-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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CURVE BNSF247
V = 150 MPH
R = 32000'
Ls = 220'
Ea/Eu =
150 MPH TURNOUT

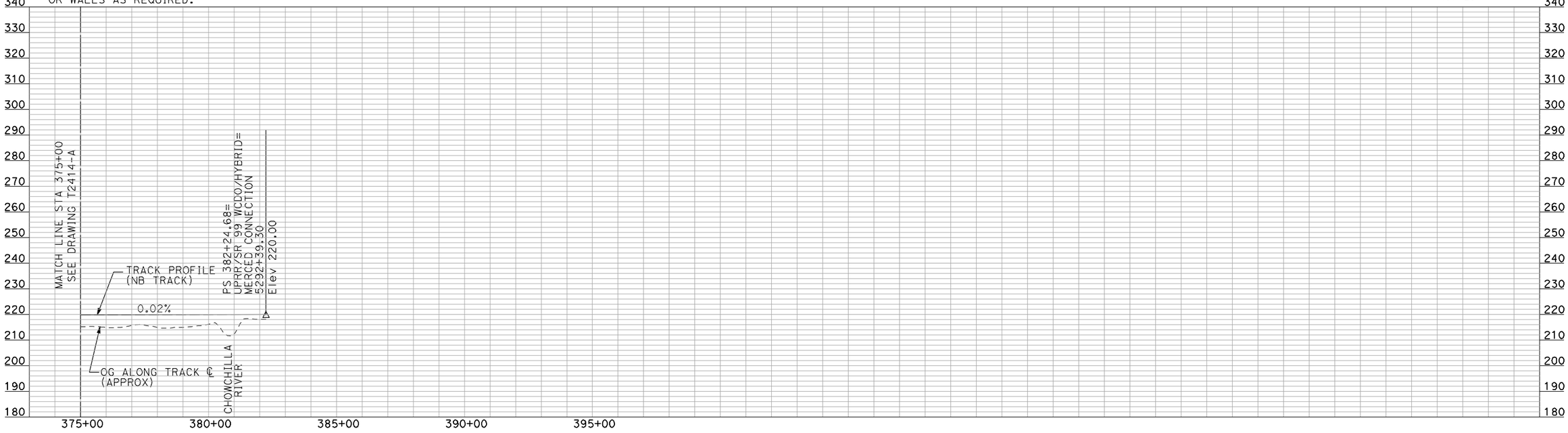
PLAN

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200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

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2020 L Street, Suite 300
Sacramento, CA 95811

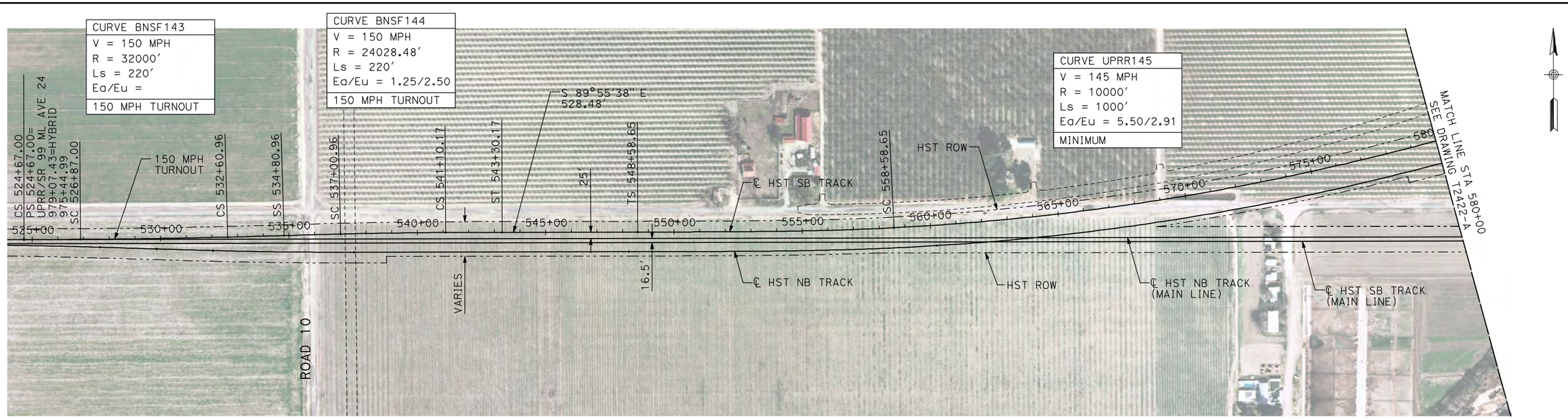
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID WYE- NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 375+00 TO STA 382+24.68

CONTRACT NO. HSR06-007
DRAWING NO. T2415-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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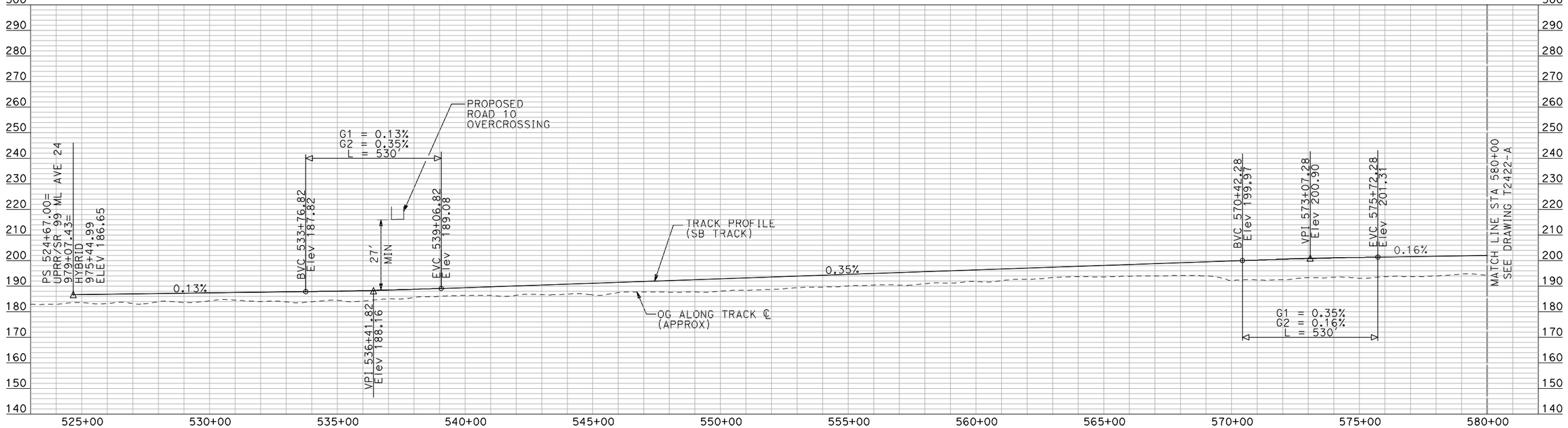
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PLAN

H: 1"=200'

V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
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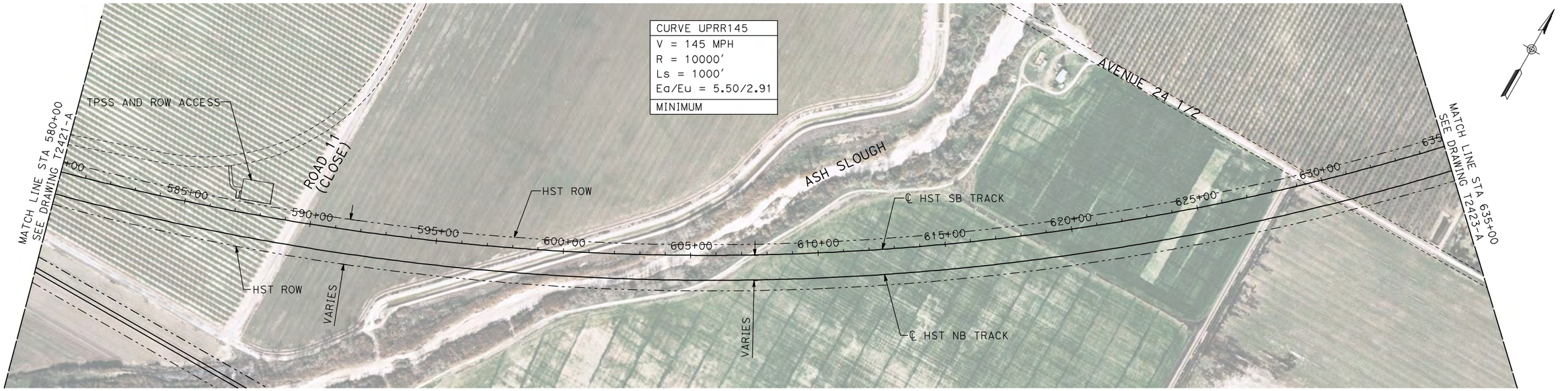
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 524+67 TO STA 580+00

CONTRACT NO. HSR06-007
DRAWING NO. T2421-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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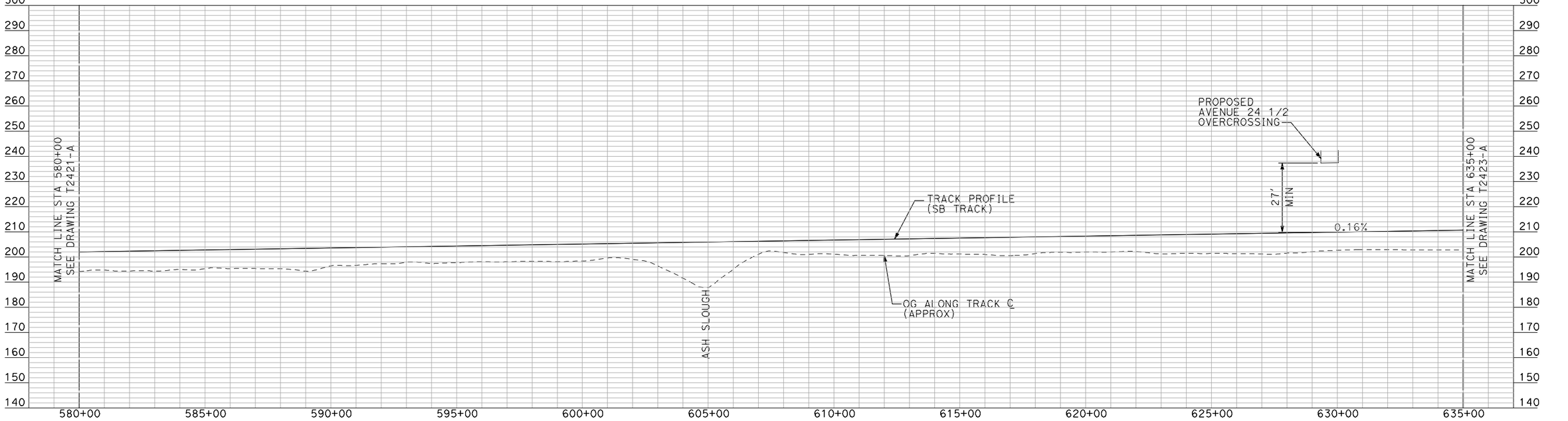
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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
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AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

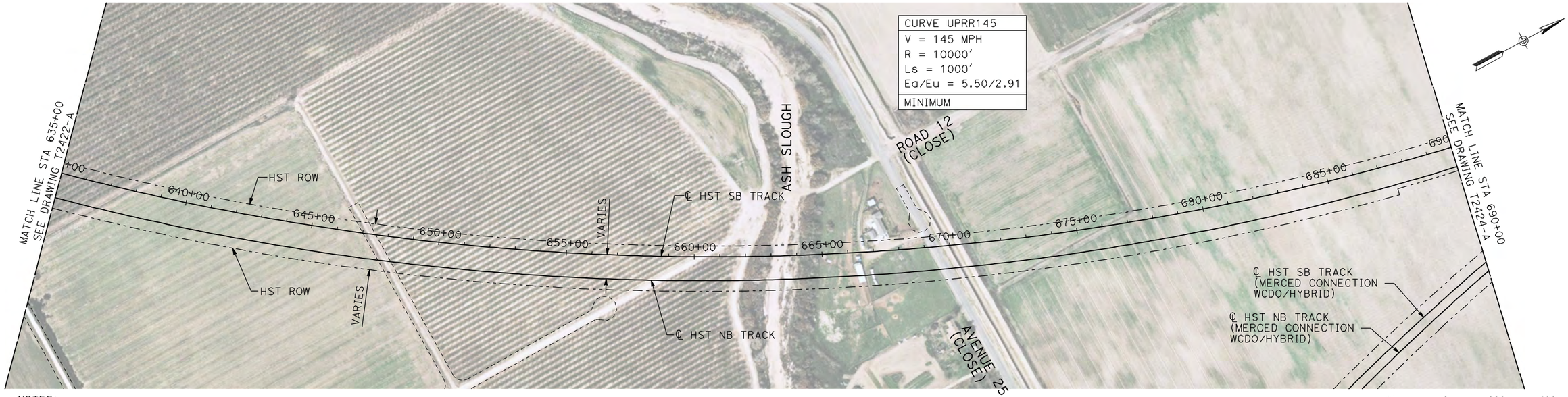
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 580+00 TO STA 635+00

CONTRACT NO. HSR06-007
DRAWING NO. T2422-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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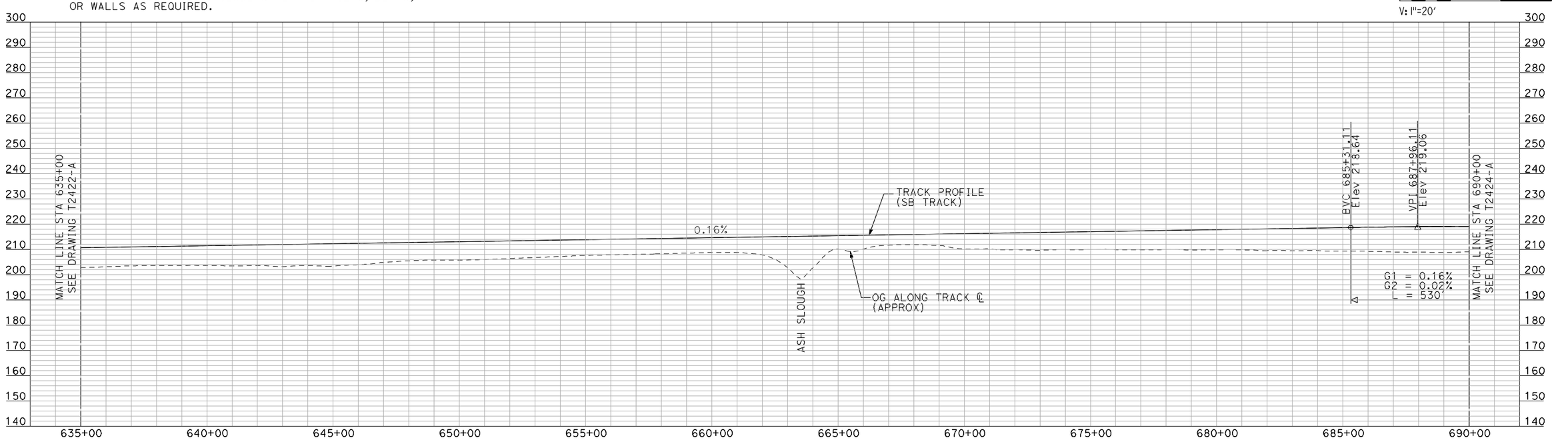
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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811
CH2MHILL

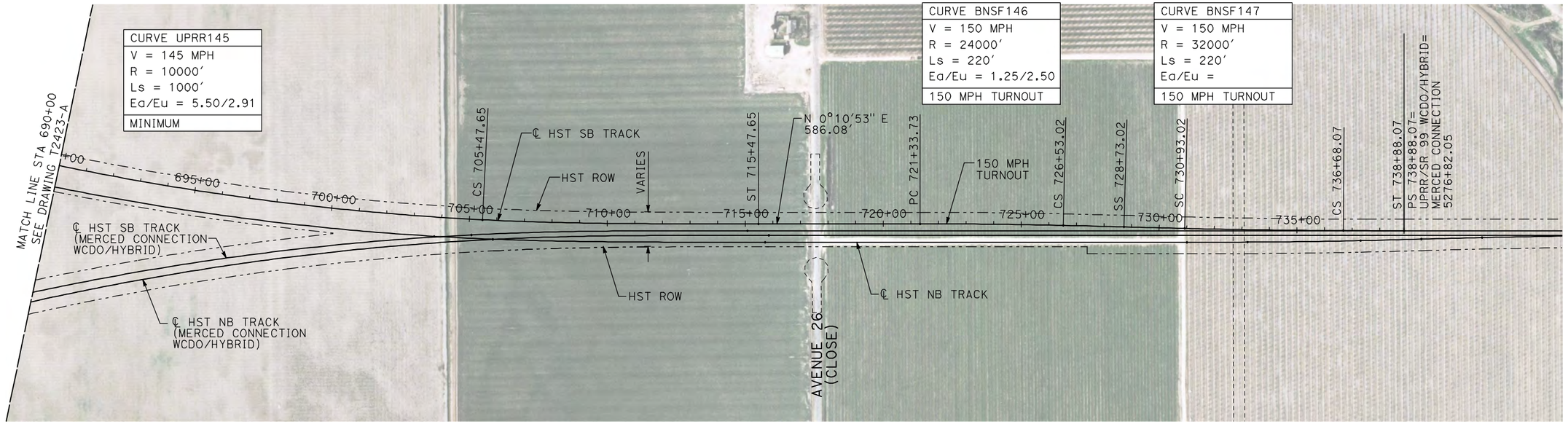
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 635+00 TO STA 690+00

CONTRACT NO. HSR06-007
DRAWING NO. T2423-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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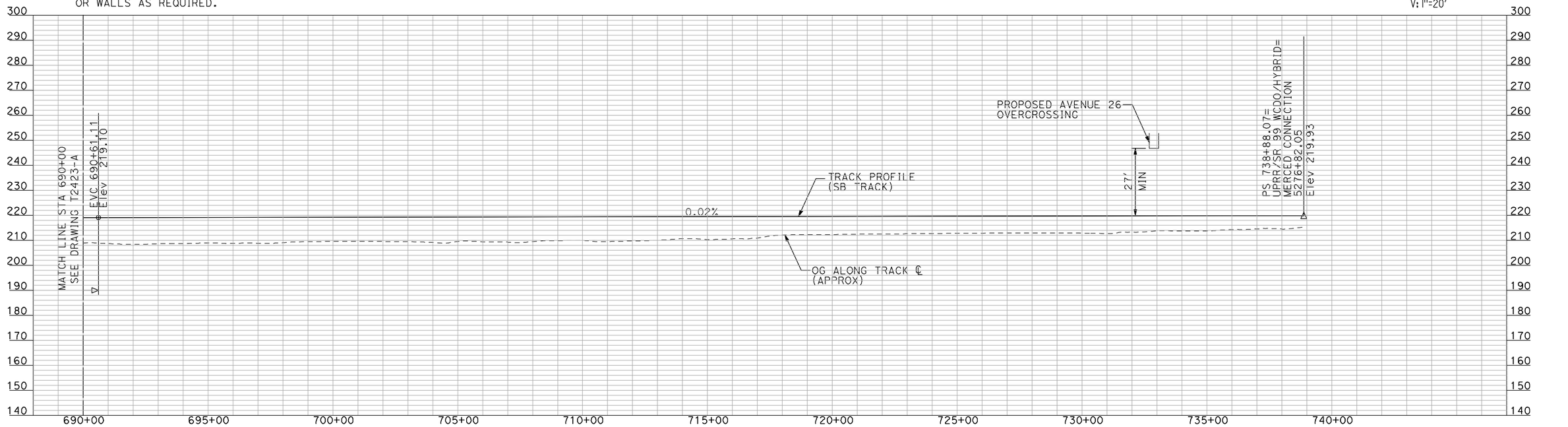
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PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. SHIELDS
DRAWN BY: H. SULLIVAN
CHECKED BY: A. BOONE
IN CHARGE: A. BOONE
DATE: 07/20/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 690+00 TO STA 738+88.07

CONTRACT NO. HSR06-007
DRAWING NO. T2424-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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